



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

BC Masonry project - Field report 06-11-13

1 message

ACT1001@aol.com <ACT1001@aol.com>

Mon, Jun 17, 2013 at 5:23 PM

To: STEVEN.YAMASAKI@gsa.gov, david.kamrowski@gsa.gov, wayne.bills@smithgroupjjr.com,
paul.johnson@smithgroup.com, ttaylor@caasi.com, mariah.mcgunigle@gsa.gov

Please see the attachment for the stated report.

Thank you,

Steve Adams

Adams Construction Technology

269-217-5620



BC Masonry 06-11-13 (Field report).pdf

1670K

*** CONSTRUCTION PROGRESS REPORT ***

"Roof Replacement & Masonry repairs"

Hart Dole Inouye Federal Center, Battle Creek, Michigan

Architect:

Smith Group JJR
500 Grisworld Street, Suite 1700
Detroit, MI 48226
wayne.bills@smithgroupjjr.com

GSA Contracting Officer Representative:

Mr. Steve Yamasaki
230 S. Dearborn Street Suite 3800
Chicago, IL 60604
steven.yamasaki@gsa.gov

Contractor:

Caasti Contracting Svcs. Inc.
19215 West Eight Mile Road
Detroit, MI 48219
ttaylor@caasti.com

GSA Field Office:

Mr. Dave Kamrowski
74 North Washington St.
Battle Creek, MI
david.kamrowski@gsa.gov

Workers on the job site: **12** (see report for more details)
Superintendent: **Tony Taylor**
Weather: **sunny** Temp. Range: **60 - 80**

DATE: 06-11-03

Caasti Contracting Svcs. Inc. (General Contractor)

Work in progress;

- Tony Taylor is on the job site today.
- **Stairway expansion joints**
 - a) Discussed with Tony the lack of expansion joints at the concrete steps that were recently poured. The concrete contractor didn't put any expansion material between the new concrete and existing stone or concrete. The architect was informed by phone of this discovery. He said he would make a site visit next week to look over this issue.

Ram Construction

(Sub Contractor, Masonry)

Work in progress

- **Building #1 walkway stone installation**
 - a) 4 men are working on the stone installation of the SW pillar. The crew has worked all day to get all 4 base stones in place using pins.
- **Building #5 masonry repairs**
 - a) 2 men are working at the SW corner of the building making mortar joint repairs.
 - b) 1 other man is working along the north elevation of the building. This is the contractor's final round looking for and making repairs to any masonry defects they may find.

Baker Concrete Co.

(Sub Contractor, Concrete work)

Work in progress

- Not on the job site this day.

Tichenor Inc. (Sub Contractor, Roofing)

Work in progress

- **Building #5 parapet flashing**
 - a) 5 men are working on the metal installation covering the concrete parapet cap. They anticipate on finishing by the end of the day today.
 - b) I discovered an issue with the lap of the two joining metal pieces the contractor is installing. The two joining pieces have pop rivets joining them together and not sure how the contractor has it set up for slipping under expansion and contraction during temperature differences. The architect will look into this when he is on site. The contract documents read as follows:

SHEET METAL FLASHING AND TRIM 07 62 00 - 2

3.1 INSTALLATION

A. Comply with SMACNA's "Architectural Sheet Metal Manual."

Allow for thermal expansion; set true to line and level. Install Work with laps, joints, and seams permanently watertight and

Work completed to date;

• Building #5 masonry repairs -----	70%
• Building #5 roofing replacement -----	65%
• Building #20 masonry repairs -----	90%
• Building #20 roofing replacement -----	65%
• Building #31 roofing replacement -----	60%
• Courtyard masonry repairs -----	85%
• Building #1 concrete walkway -----	50%
• Building #1 walkway Stone work -----	55%
• Exit 7 repairs & new installation -----	00%
• Exit 8 repairs & new installation -----	00%
• Building #2A Fire exit repairs & new installation --	00%
• Change order CE5001 -----	60%
• Change order CE5002 -----	25%
• Change order CE5003 -----	100%
• Change order CE5004 -----	100%
• Change order CE5005 -----	20%
• Change order CE5006 -----	00%
• Change order CE5007 -----	00%
• Change order CE5008 -----	100%
• Change order CE5009 -----	00%



Ram construction setting the new stones for the SW pillar.



Another view of the stone setting.



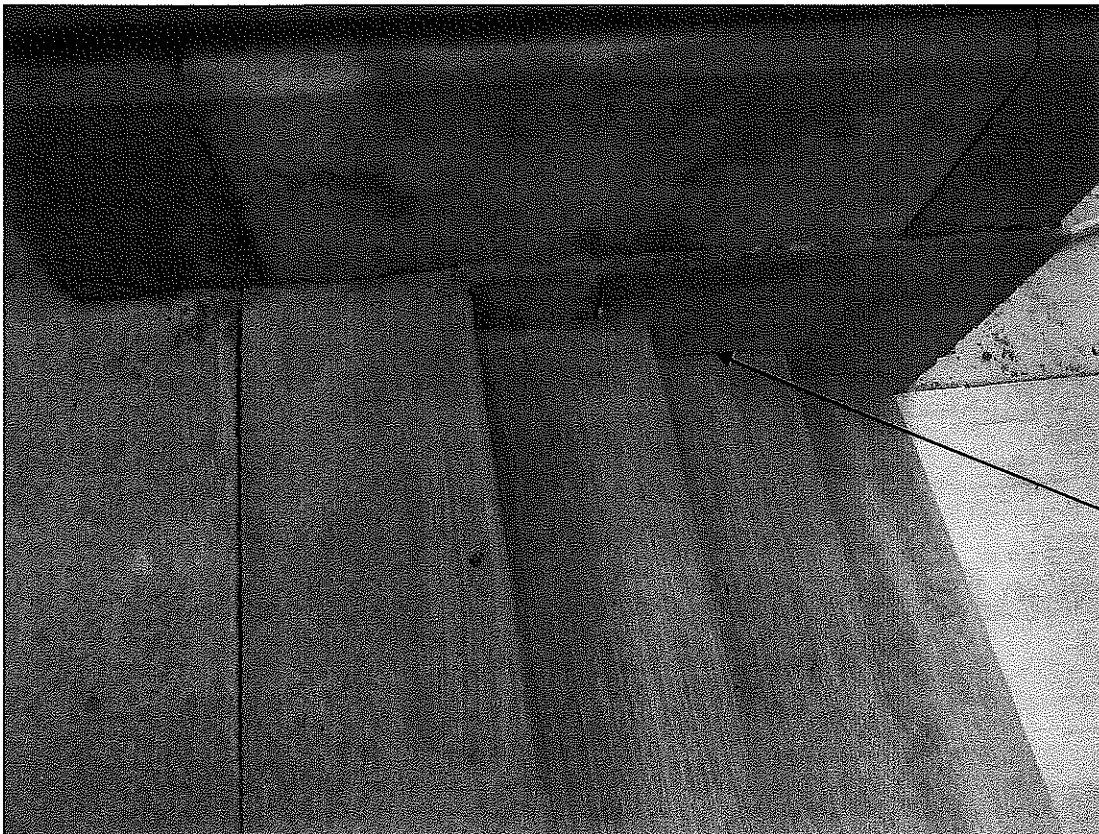
A view of the job site in front of building #1.



Setting the last base stone.



GSA did some conduit installation.



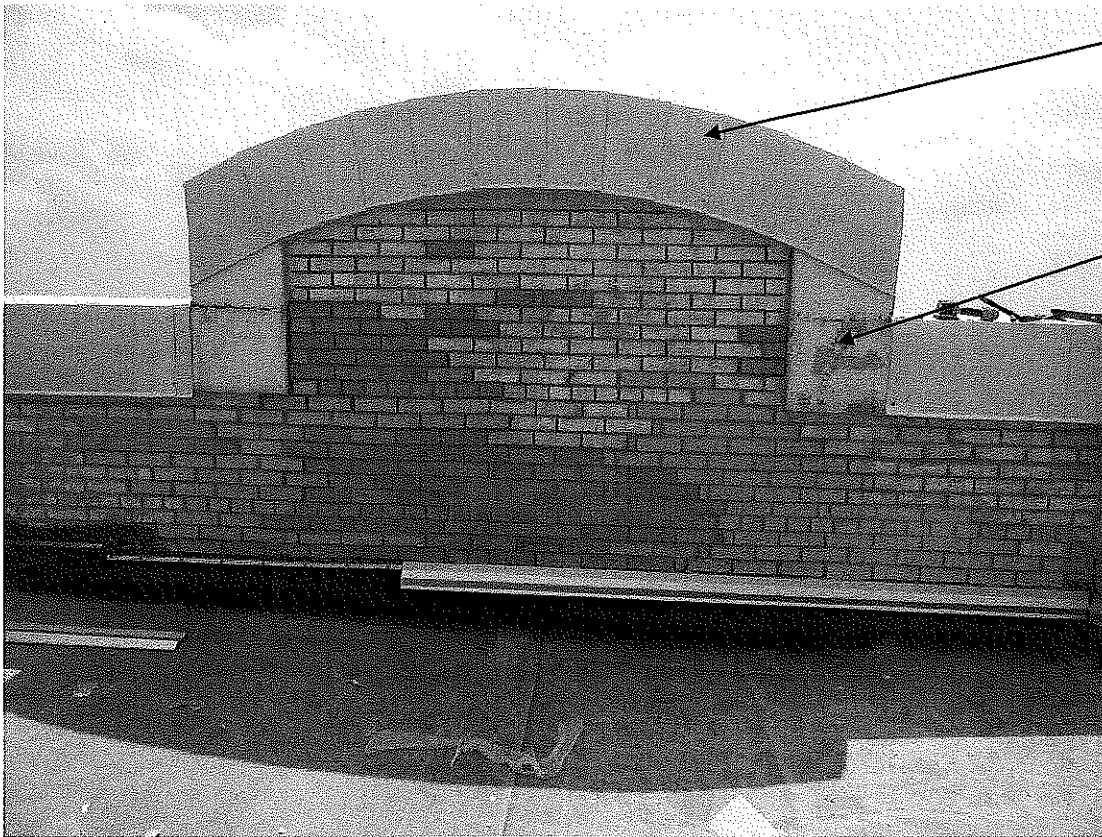
Showing the recently poured concrete steps without expansion material here.



This is the sub flashing being installed.



Nearly finished.



Another view of the finished top.

The contractor will be adding flashing in this area.

This concludes this report for June 11, 2013

- Steve Yamasaki, Dave Kamrowski, Smith Group, Wayne Bills & Paul Johnson, Tony Taylor (General Contractor)
- If there are any misunderstandings or omissions in this report, please notify Adams Construction Technology or the office of the Architect within 3 business days of receiving it. If any revisions are made, revised copies will be reissued. Please address any correspondence to: **Steve Adams** in one of the following ways,
e-mail- ACT1001@aol.com phone - 269-217-5620

REPORTED BY:

Steve Adams
Adams Construction Technology LLC
Phone - 269-217-5620
E-mail - ACT1001@aol.com



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

RE: BC phase 5 concrete work

1 message

Tony Taylor <ttaylor@caasti.com>

To: Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>, Dave Kamrowski <david.kamrowski@gsa.gov>, act1001@aol.com, Jerry Carter <Jerry.Carter@smithgroupjir.com>, Paul Johnson <Paul.Johnson@smithgroupjir.com>

Fri, Jun 21, 2013 at 3:40 PM

Cc: ttaylor@caasti.com, Linda Randle <lrandle@caasti.com>

We are working on it. I will try to let you know something early next week.

Thanks.

Tony A. Taylor

Sr. Estimator/Project Manager

Caasti Contracting Svcs.

19115 W.Eight Mile Rd.

Detriot, Mi.48219

313-535-9891 Office

313-535-9896 fax

ttaylor@caasti.com

From: Steven Yamasaki - 5PSSC1B [mailto:steven.yamasaki@gsa.gov]

Sent: Friday, June 21, 2013 2:37 PM

To: Tony Taylor; Dave Kamrowski; act1001@aol.com; Jerry Carter; Paul Johnson

Subject: BC phase 5 concrete work

Just a reminder to please comment on concrete tolerance standards, specifically as applicable at building 1 stairs.

—
Steve Yamasaki

Project Manager,MISC Technical team

GSA, PBS, Great Lakes Region, PMSC

230 South Dearborn Street Suite 3300

Chicago, IL 60604

(312) 353-1256 (b) (6) fax (312) 353-0240

steven.yamasaki@gsa.gov



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Fwd: FW: Tolerance for Front Steps

1 message

Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Wed, Jul 10, 2013 at 10:32 AM

To: Jerry Carter <Jerry.Carter@smithgroupjir.com>, Paul Johnson <Paul.Johnson@smithgroupjir.com>, Dave Kamrowski <david.kamrowski@gsa.gov>, "act1001@aol.com" <act1001@aol.com>

fyi

----- Forwarded message -----

From: **Tony Taylor** <ttaylor@caasti.com>

Date: Wed, Jul 10, 2013 at 10:29 AM

Subject: FW: Tolerance for Front Steps

To: Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Cc: Candice Taylor <ctaylor@caasti.com>, Linda Randle <lrandle@caasti.com>

Good morning Steve, please read the comments below from my subcontractor concerning the tolerance for the steps in bldg. #1 front walkway.

Thanks.

Tony A. Taylor

Sr. Estimator/Project Manager

Caasti Contracting Svcs.

19115 W.Eight Mile Rd.

Detriot, Mi.48219

313-535-9891 Office

313-535-9896 fax

ttaylor@caasti.com

From: Mike Ramey

Sent: Wednesday, July 10, 2013 10:46 AM

To: Tony Taylor

Subject: RE: Tolerance for Front Steps

Tony,

In regards to walkway A at building1, after having our site foreman Joe take measurements and checking them with the tolerances within ACI 117-10, the stairs are within the allowed tolerances of ¼ inch over ten feet.

Thank you

Mike Ramey

Project Manager/Estimator

—
Steve Yamasaki
Project Manager, MISC Technical team
GSA, PBS, Great Lakes Region, PMSC
230 South Dearborn Street Suite 3300
Chicago, IL 60604
(312) 353-1256 (b) (6) fax (312) 353-0240
steven.yamasaki@gsa.gov



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Re: Building 1 Stairway A Concrete Construction Tolerance

1 message

Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Thu, Jul 18, 2013 at 11:09 AM

To: Jerry Carter <Jerry.Carter@smithgroupjjr.com>, Kathern Williams - 5P2PQBC <kathern.williams@gsa.gov>

Cc: David Kamrowski <david.kamrowski@gsa.gov>, Steve Adams <act1001@aol.com>, Paul Johnson

<Paul.Johnson@smithgroupjjr.com>, Tony Taylor <ttaylor@caasti.com>

Tony, please correct.

Steve

On Thu, Jul 18, 2013 at 10:38 AM, Jerry Carter <Jerry.Carter@smithgroupjjr.com> wrote:

Steve,

Please see the attached memo.

Thanks,

Jerry

Jerry Carter

Building Technology Studio

SmithGroupJJR

500 Griswold, Suite 1700

Detroit, MI 48226

t 313.983.3600 d 313.442.8123

f 734.780.2432

Jerry.Carter@smithgroupjjr.com

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--
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steven.yamasaki@gsa.gov

Building 1 Stairway A

SUBJECT

7/17/2013

DATE

1

PAGE

OF

1

PAGES

Concrete Construction Tolerance

22480.000

PROJECT NO.

Steve Yamasaki

TO

312.353.1256

TELEPHONE NO.

GSA - Chicago

LOCATION

FAX NO.

Jerry Carter

FROM

313.422.8123

TELEPHONE NO.

SGJJR - Detroit

LOCATION

FAX NO.

DISTRIBUTION

Dave Kamrowski

Steve Adams

Paul Johnson

Tony Taylor

On Thursday, July 11th, 2013, Steve Adams and I took measurements at the building 1 walkway stairway A (sheet A.1.06) to verify if the stairs were built to meet the tolerances set by ACI. The tolerance set by ACI allows for a difference between adjacent treads to be 1/4 inch over a span of 10 feet. The measurements that Steve Adams and I found for the north section of stairway A may not meet ACI. The second step on the north section of stairway A varies by 1/2" over a 15 foot span. Please see Attachment A of a field sketch and photos of our measurements.

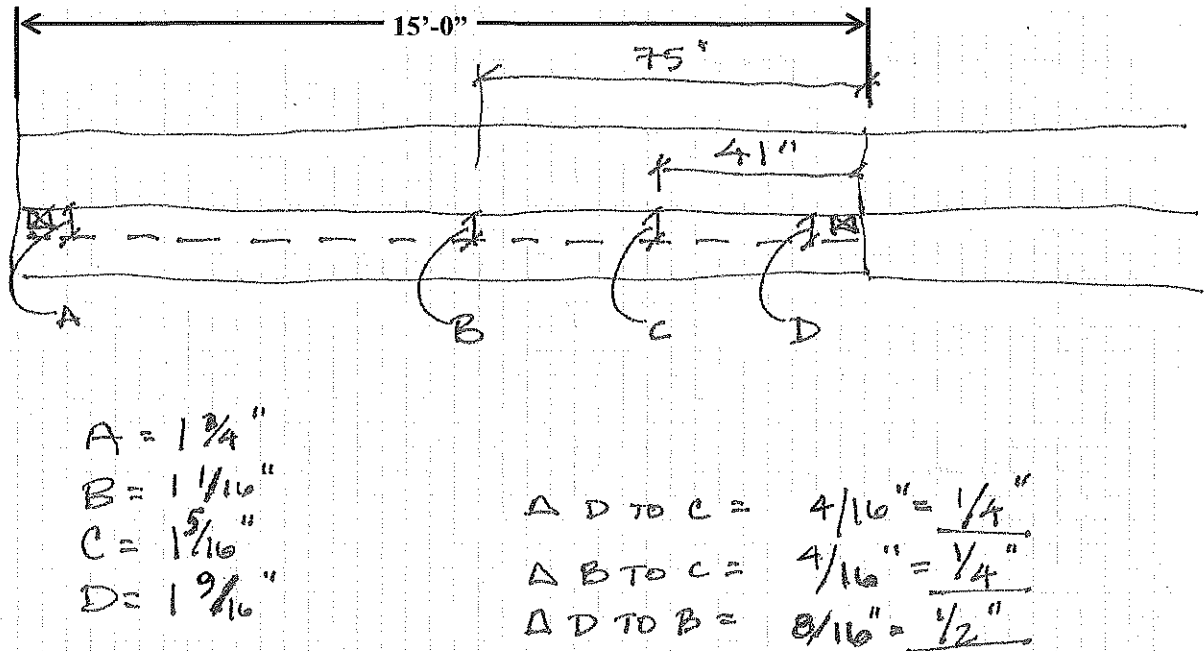


PHOTO 1: FIELD SKETCH

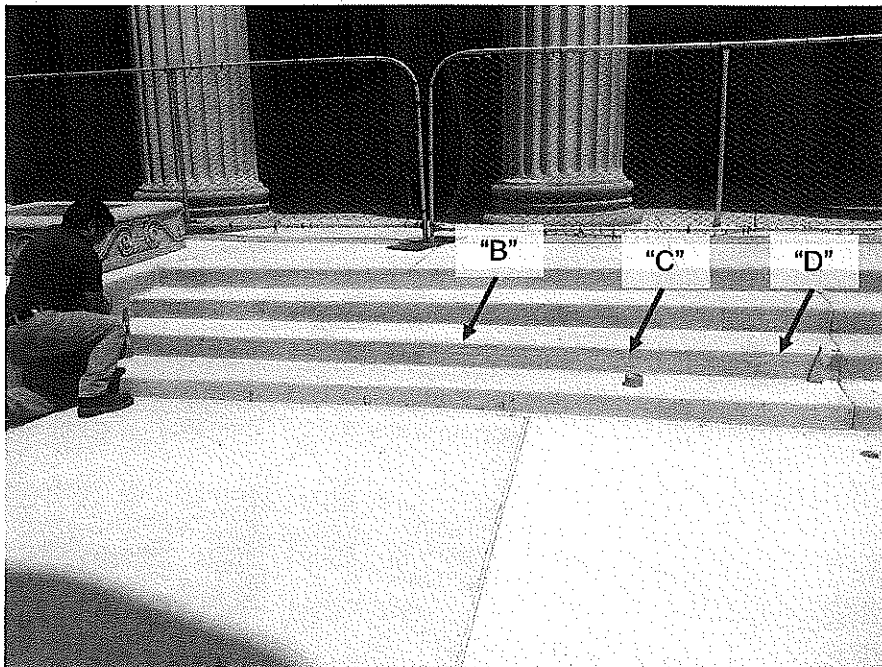


PHOTO 2: OVERALL PHOTO AT STAIRWAY A, NORTH SECTION

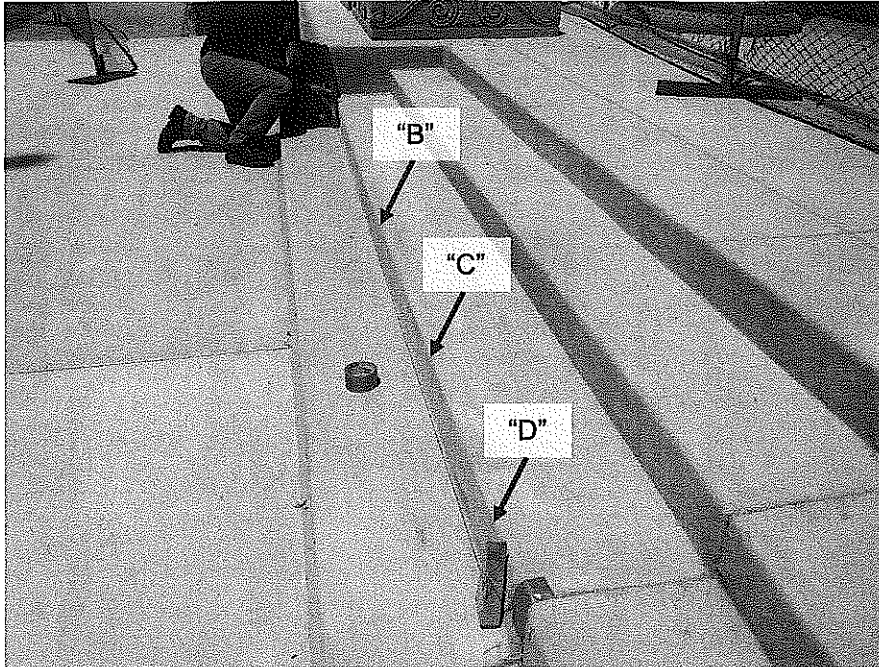


PHOTO 3: OVERALL PHOTO AT STAIRWAY A, NORTH SECTION

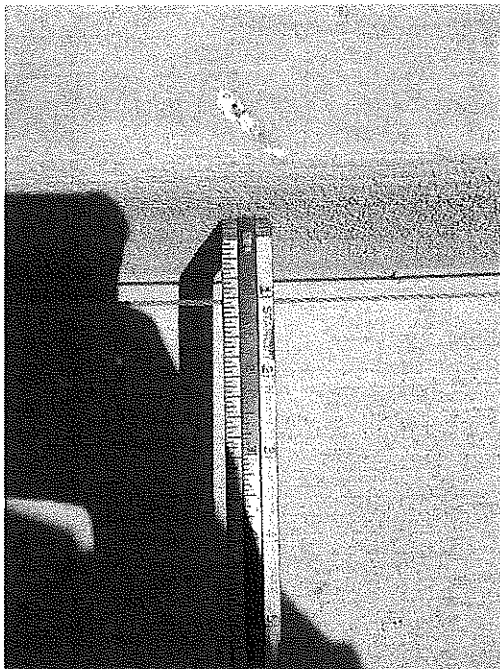


PHOTO 4: MEASUREMENT "B"

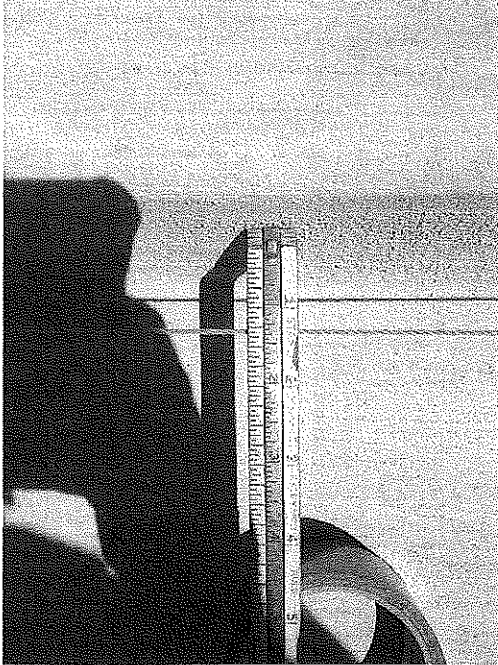


PHOTO 5: MEASUREMENT "C"

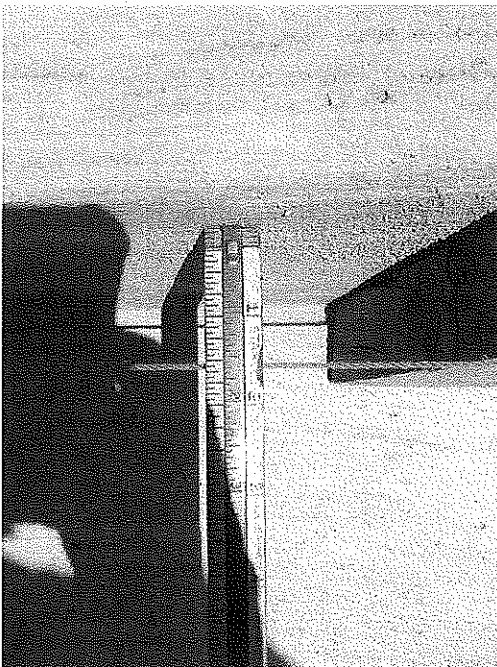


PHOTO 6: MEASUREMENT "D"



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Re: Building 1 Stairway A Concrete Construction Tolerance

1 message

Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Thu, Jul 18, 2013 at 11:09 AM

To: Jerry Carter <Jerry.Carter@smithgroupjjr.com>, Kathern Williams - 5P2PQBC <kathern.williams@gsa.gov>

Cc: David Kamrowski <david.kamrowski@gsa.gov>, Steve Adams <act1001@aol.com>, Paul Johnson

<Paul.Johnson@smithgroupjjr.com>, Tony Taylor <ttaylor@caasti.com>

Tony, please correct.

Steve

On Thu, Jul 18, 2013 at 10:38 AM, Jerry Carter <Jerry.Carter@smithgroupjjr.com> wrote:

Steve,

Please see the attached memo.

Thanks,

Jerry

Jerry Carter

Building Technology Studio

SmithGroupJJR

500 Griswold, Suite 1700

Detroit, MI 48226

t 313.983.3600 d 313.442.8123

f 734.780.2432

Jerry.Carter@smithgroupjjr.com

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7/18/13

GSA.gov Mail - Re: Building 1 Stairway A Concrete Construction Tolerance

—
Steve Yamasaki
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(312) 353-1256 (b) (6) fax (312) 353-0240
steven.yamasaki@gsa.gov



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

RE: Building 1 Stairway A Concrete Construction Tolerance

1 message

Tony Taylor <ttaylor@caasti.com>

Thu, Jul 18, 2013 at 1:48 PM

To: Jerry Carter <Jerry.Carter@smithgroupjjr.com>, Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Cc: David Kamrowski <david.kamrowski@gsa.gov>, Steve Adams <act1001@aol.com>, Paul Johnson

<Paul.Johnson@smithgroupjjr.com>

Jerry, the spec calls for 1/4 inch over a 10 ft. span so the stairs are in tolerance. Your measurement as I understand it was over a 15 ft. span. We also measured the steps and found them to be in tolerance.

Thanks.

Tony A. Taylor
Sr. Estimator/Project Manager
Caasti Contracting Svcs.
19115 W.Eight Mile Rd.
Detroit, Mi.48219
313-535-9891 Office
313-535-9896 fax
ttaylor@caasti.com

-----Original Message-----

From: Jerry Carter [mailto:Jerry.Carter@smithgroupjjr.com]

Sent: Thursday, July 18, 2013 11:38 AM

To: Steven Yamasaki - 5PSSC1B

Cc: David Kamrowski; Steve Adams; Paul Johnson; Tony Taylor

Subject: Building 1 Stairway A Concrete Construction Tolerance

Steve,

Please see the attached memo.

Thanks,

Jerry

Jerry Carter
Building Technology Studio

.....
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Detroit, MI 48226

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Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Re: Battle Creek - Code Requirement

1 message

Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>
To: Daniel Kammann - 5PSSC1B <daniel.kammann@gsa.gov>

Tue, Jul 30, 2013 at 9:45 AM

Any answer yet on the waiver?

On Tue, Jul 9, 2013 at 3:38 PM, Daniel Kammann - 5PSSC1B <daniel.kammann@gsa.gov> wrote:
Yes, proceed with the modifications.

Dan Kammann
Project Manager, MISC Technical Team
GSA, PBS, Great Lakes Region, PMSC
6 Parklane Blvd, Suite 451
Dearborn, MI 48126
(313) 317-9621 (b) (6) Fax (313) 845-7131
daniel.kammann@gsa.gov

On Tue, Jul 9, 2013 at 4:24 PM, Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:
Not exactly a waiver but I will wait for your reply to acknowledge. Shall i move forward with the RFP and rescinding the Smith-Group redesign change order?

Steve

----- Forwarded message -----

From: **Paul Johnson** <Paul.Johnson@smithgroupjjr.com>
Date: Tue, Jul 9, 2013 at 3:07 PM
Subject: RE: Battle Creek - Code Requirement
To: Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>
Cc: Jerry Carter <Jerry.Carter@smithgroupjjr.com>, Wayne Bills <Wayne.Bills@smithgroupjjr.com>

Steve,

I understand you are revising bulletin number 1 to eliminate revisions to the courtyard railing redesign recommended by SmithGroupJJR, as regards height/location of the railing and safety.

We understand this is a GSA decision, however we are still concerned with the condition you are creating by this decision.

Please confirm receipt of this communication to recognize that our concern has been acknowledged by GSA. We are not the architect of record for this work, but we do feel obligated as architects to

advise you of this concern one final time.

Paul G. Johnson FAIA NCARB

Leader Building Technology Studio

SmithGroupJJR

500 Griswold, Suite 1700

Detroit, MI 48226

t 313.983.3600 d 313.442.8183

f 734.780.8959

Paul.Johnson@smithgroupjjr.com

Ranked #1 for design quality and #2 overall by *Architect*,
the magazine of the American Institute of Architects and
recipient of the 2011 Landscape Architecture Firm Award
from the American Society of Landscape Architects.

Connect with us! www.smithgroupjjr.com

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From: Steven Yamasaki - 5PSSC1B [mailto:steven.yamasaki@gsa.gov]

Sent: Tuesday, July 09, 2013 3:03 PM

To: Jerry Carter; Dave Kamrowski

Cc: act1001@aol.com; Paul Johnson; Thomas O'Brien - 5PMF; Amanda Zansitis - 5PME; Mariah C. McGunigle; Daniel Kammann

Subject: Fwd: Battle Creek - Code Requirement

Please see attached draft for your review and/or comment. Items 1 and 2 are a result from a GSA decision to return to the original hand rail design because of cost constraints. These 2 items were the result of Building Manager requests.

Steve

----- Forwarded message -----

From: **Jerry Carter** <Jerry.Carter@smithgroupjjr.com>
Date: Tue, Jul 9, 2013 at 1:29 PM
Subject: RE: Battle Creek - Code Requirement
To: Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Steve,

How about the following two paragraphs for the change order write up?

Revise the rails at building 20, exit 7 and exit 8 to meet the International Building Code 2009 requirements of section 1013.2 (height of 42" from the walking surface) and section 1013.3 (railings shall not have openings which allow passage of a sphere 4 inches in diameter.)

Revise the rail at building 5 south elevation to meeting the International Building Code 2009 requirement section 1013.2 (height of 42" from the walking surface.)

Thanks,

Jerry

From: Steven Yamasaki - 5PSSC1B [mailto:steven.yamasaki@gsa.gov]
Sent: Wednesday, July 03, 2013 12:03 PM
To: Jerry Carter
Cc: Thomas O'Brien - 5PMF; Amanda Zansitis - 5PME; Dave Kamrowski; act1001@aol.com; Paul Johnson
Subject: Re: Battle Creek - Code Requirement

As far as **(At) the 3 exits**, I'd like wording to **revise the railing height to 42" and spacing of verticals to be no more than 4" at applicable locations**. Oh wait can I just use the proceeding wording I just typed? Please advise.

Regarding the courtyard height GSA is making the interpretation that the 42" dimension shall be from the sidewalk to the top of the railing. Subsequently the change order 7 shall be rescinded so can we will go back to the original design? Please advise.

On Wed, Jul 3, 2013 at 8:22 AM, Jerry Carter <Jerry.Carter@smithgroupjir.com> wrote:

Morning Steve,

Based on the email below, a change order will be issued for exit #7, exit #8, & Building 20 to be revised to meet the code height requirement of 42". For this item, do you need anything from SG to generate the revision, which could be in the form of a bulletin? Or do you want to leave it up to the contractor? In either case, I will reject the railing shop drawings for the railings mentioned above. Currently the railing shop drawings were approved, with the exception of the non-code compliant railings. In my shop drawing response, I will comment that a change order will be issued.

For change order 7, the courtyard guardrails, what is the reason for rescinding change order 7? Is it to resolve the 4" sphere rule at the intersection of the courtyard rail and the stair rail? Or is it for something else?

Thanks,

Jerry

From: Steven Yamasaki - 5PSSC1B [mailto:steven.yamasaki@gsa.gov]

Sent: Tuesday, July 02, 2013 4:23 PM

To: Thomas O'Brien - 5PMF

Cc: Jerry Carter; Dave Kamrowski; act1001@aol.com

Subject: Re: Battle Creek - Code Requirement

Thank you I will rescind change order 7

On Tue, Jul 2, 2013 at 3:20 PM, Thomas O'Brien - 5PMF <thomas.obrien@gsa.gov> wrote:

from grade level is considered satisfactory, acceptable, etc.

On Tue, Jul 2, 2013 at 3:15 PM, Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

Thanks.

About the 42" from grade or the stoop issue for the guard rail around the courtyard?

Steve

On Tue, Jul 2, 2013 at 2:50 PM, Thomas O'Brien - 5PMF <thomas.obrien@gsa.gov> wrote:

Steve:

Smith Group is absolutely correct.

The International Building Code, the NFPA Life Safety Code, and OSHA General Industry Standards all require that guards/railings protecting open-sided walkways (that meet the parameters detailed by Jerry Carter of SmithGroup at the bottom of this email string) must be a minimum height of 42 inches.

Much thanks to Jerry Carter for catching this prior to installation starting.....

I understand that G.H. Forbes is no longer under contract with GSA but I would suggest someone talk to an appropriate Contracting Officer to see if we can recoup some of the extra money we now have to spend to correct their design errors.

Sorry we did not catch this during our reviews -- apparently this slipped by a lot of persons, groups, etc. that might have had an opportunity to notice and correct the apparent G.H. Forbes design error(s).

The separate issue/email about the "4-inch" maximum opening between vertical railings (including at the intersection of railings installed that go in different directions) is also a code requirement that also needs to be addressed.

So, a change order is considered necessary.

And, again, sorry this took so long.....

Tom

On Mon, Jun 17, 2013 at 11:46 AM, Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

Design AE is GHForbes, no longer under contract. Current M&I AE is Smith Group who are bringing these issues up. They will choose the most conservative (expensive) solutions due to liability. I am requesting that you comment on these issues so that I can proceed to have Smith Group redesign or take another route of our choice.

On Mon, Jun 17, 2013 at 11:42 AM, Thomas O'Brien - 5PMF <thomas.obrien@gsa.gov> wrote:

Steve:

You sent me the email below last week and a similar one (a different issue, but similar) today.

We would suggest, for starters, that these questions go to the design A-E for answering.....unless I am not understanding something ?

Tom

On Thu, Jun 13, 2013 at 9:17 AM, Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

Could you please comment? i can come down/up with the drawings if needed. Let me know.

Steve

----- Forwarded message -----

From: **Jerry Carter** <Jerry.Carter@smithgroupjjr.com>

Date: Thu, Jun 13, 2013 at 8:58 AM

Subject: RE: Battle Creek - Code Requirement

To: Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Both Michigan Building Code 2009 and International Building Code 2009, section 1013.1

From: Steven Yamasaki - 5PSSC1B [mailto:steven.yamasaki@gsa.gov]

Sent: Thursday, June 13, 2013 9:55 AM

To: Jerry Carter

Subject: Re: Battle Creek - Code Requirement

Which code are you referring to?

On Thu, Jun 13, 2013 at 8:49 AM, Jerry Carter <Jerry.Carter@smithgroupjjr.com> wrote:

Steve,

Per code requirements, guards are required on the open side of any walking surface that is located more than 30 inches measured vertically to the floor or grade below. The required guard height is 42" from the walking surface. The contract documents do not properly address this code requirement for the locations listed below, and the contract documents only indicate a height of 34" – 36".

1. Exit # 7 Ramp (A-505)

7/30/13

GSA.gov Mail - Re: Battle Creek - Code Requirement

2. Exit # 8 Stairs (A-504)
3. Building 20 Stairs (A-206) discussion regarding

To meet this code requirement a bulletin and a change order will need to be issued. Steve, please give me a call to discuss this.

Regards,

Jerry

Jerry Carter

Building Technology Studio

SmithGroupJJR

500 Griswold, Suite 1700

Detroit, MI 48226

t 313.983.3600 d 313.442.8123

f 734.780.2432

Jerry.Carter@smithgroupjjr.com

Expect the Unexpected.

Visit www.smithgroupjjr.com

Follow us on LinkedIn | @SmithGroupJJR

--
Steve Yamasaki

Project Manager, MISC Technical team

GSA, PBS, Great Lakes Region, PMSC

230 South Dearborn Street Suite 3300

Chicago, IL 60604

7/30/13

GSA.gov Mail - Re: Battle Creek - Code Requirement

(312) 353-1256 (b) (6) fax (312) 353-0240

steven.yamasaki@gsa.gov

--

Steve Yamasaki

Project Manager, MISC Technical team

GSA, PBS, Great Lakes Region, PMSC

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Chicago, IL 60604

(312) 353-1256 (b) (6) fax (312) 353-0240

steven.yamasaki@gsa.gov

--

Thomas O'Brien

U.S. General Services Administration

Manager - Environmental, Safety and Fire Protection Branch - 5PMF

JCK FB, 230 S. Dearborn, Room 3500

Chicago, IL 60604

312-353-4835

312-353-9320 (fax)

(b) (6)

Blackberry PIN: 331F4B4B

GSA employees may visit us at: <https://sites.google.com/a/gsa.gov/r5-copy/home>

--

Steve Yamasaki

Project Manager, MISC Technical team

8/8/13

GSA.gov Mail - Re: Building 1 Stairway A Concrete Construction Tolerance



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Re: Building 1 Stairway A Concrete Construction Tolerance

1 message

Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Thu, Aug 8, 2013 at 9:58 AM

To: Jerry Carter <Jerry.Carter@smithgroupjir.com>, "act1001@aol.com" <act1001@aol.com>

ok at next meeting. If in tolerance i can retire this issue.

Steve

On Thu, Aug 8, 2013 at 9:57 AM, Jerry Carter <Jerry.Carter@smithgroupjir.com> wrote:

We could re-measure the steps over the 10 foot span.

From: Steven Yamasaki - 5PSSC1B [mailto:steven.yamasaki@gsa.gov]

Sent: Thursday, August 08, 2013 10:50 AM

To: Jerry Carter

Cc: act1001@aol.com

Subject: Fwd: Building 1 Stairway A Concrete Construction Tolerance

please comment

----- Forwarded message -----

From: **Tony Taylor** <ttaylor@caasti.com>

Date: Thu, Jul 18, 2013 at 1:48 PM

Subject: RE: Building 1 Stairway A Concrete Construction Tolerance

To: Jerry Carter <Jerry.Carter@smithgroupjir.com>, Steven Yamasaki - 5PSSC1B

<steven.yamasaki@gsa.gov>

Cc: David Kamrowski <david.kamrowski@gsa.gov>, Steve Adams <act1001@aol.com>, Paul Johnson

<Paul.Johnson@smithgroupjir.com>

Jerry, the spec calls for 1/4 inch over a 10 ft. span so the stairs are in tolerance. Your measurement as I understand it was over a 15 ft. span. We also measured the steps and found them to be in tolerance.

Thanks.

Tony A. Taylor

Sr. Estimator/Project Manager

Caasti Contracting Svcs.

19115 W.Eight Mile Rd.

Detriot, Mi.48219

313-535-9891 Office

313-535-9896 fax

ttaylor@caasti.com

1/2 SPOT OVER 11/4/10
OUT OF TOLERANCE
JERRY @ 13 AUG 13 MTE
WILL SEND EMAIL
CAVDISE - ROOM WILL
COPY
@ 8/28/13 MTE
CAVDISE - NO REPLY
YET - SOON
CAVDISE - WAITING
FOR REPLY
STILL WAITING
9-18-13
SAME
9-26-13

-----Original Message-----

From: Jerry Carter [mailto:Jerry.Carter@smithgroupjjr.com]
Sent: Thursday, July 18, 2013 11:38 AM
To: Steven Yamasaki - 5PSSC1B
Cc: David Kamrowski; Steve Adams; Paul Johnson; Tony Taylor
Subject: Building 1 Stairway A Concrete Construction Tolerance

Steve,

Please see the attached memo.

Thanks,

Jerry

Jerry Carter
Building Technology Studio

.....
SmithGroupJJR
500 Griswold, Suite 1700
Detroit, MI 48226

t 313.983.3600 d 313.442.8123
f 734.780.2432

Jerry.Carter@smithgroupjjr.com<mailto:Jerry.Carter@smithgroupjjr.com>

Expect the Unexpected.

Visit www.smithgroupjjr.com<<http://www.smithgroupjjr.com/>>

Follow us on LinkedIn<<http://www.linkedin.com/company/SmithGroupJJR>> |
[@SmithGroupJJR](http://twitter.com/SmithGroupJJR)<[@SmithGroupJJR](http://twitter.com/SmithGroupJJR)>

--
Steve Yamasaki

Project Manager, MISC Technical team

GSA, PBS, Great Lakes Region, PMSC

230 South Dearborn Street Suite 3300

Chicago, IL 60604

(312) 353-1256 (b) (6) fax (312) 353-0240

steven.yamasaki@gsa.gov



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Fwd: Building 1 Stairway A Concrete Construction Tolerance

1 message

Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Thu, Aug 8, 2013 at 9:50 AM

To: Jerry Carter <Jerry.Carter@smithgroupjjr.com>

Cc: "act1001@aol.com" <act1001@aol.com>

please comment

----- Forwarded message -----

From: **Tony Taylor** <ttaylor@caasti.com>

Date: Thu, Jul 18, 2013 at 1:48 PM

Subject: RE: Building 1 Stairway A Concrete Construction Tolerance

To: Jerry Carter <Jerry.Carter@smithgroupjjr.com>, Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Cc: David Kamrowski <david.kamrowski@gsa.gov>, Steve Adams <act1001@aol.com>, Paul Johnson <Paul.Johnson@smithgroupjjr.com>

Jerry, the spec calls for 1/4 inch over a 10 ft. span so the stairs are in tolerance. Your measurement as I understand it was over a 15 ft. span. We also measured the steps and found them to be in tolerance.

Thanks.

Tony A. Taylor
Sr. Estimator/Project Manager
Caasti Contracting Svcs.
19115 W.Eight Mile Rd.
Detroit, Mi.48219
313-535-9891 Office
313-535-9896 fax
ttaylor@caasti.com

-----Original Message-----

From: Jerry Carter [mailto:Jerry.Carter@smithgroupjjr.com]

Sent: Thursday, July 18, 2013 11:38 AM

To: Steven Yamasaki - 5PSSC1B

Cc: David Kamrowski; Steve Adams; Paul Johnson; Tony Taylor

Subject: Building 1 Stairway A Concrete Construction Tolerance

Steve,

Please see the attached memo.

Thanks,

Jerry

Jerry Carter
Building Technology Studio

.....

SmithGroupJJR
500 Griswold, Suite 1700
Detroit, MI 48226

t 313.983.3600 d 313.442.8123
f 734.780.2432

Jerry.Carter@smithgroupjjr.com<mailto:Jerry.Carter@smithgroupjjr.com>

Expect the Unexpected.
Visit www.smithgroupjjr.com<<http://www.smithgroupjjr.com/>>

Follow us on LinkedIn<<http://www.linkedin.com/company/SmithGroupJJR>> |
[@SmithGroupJJR](http://twitter.com/@SmithGroupJJR)<<http://twitter.com/@SmithGroupJJR>>

--
Steve Yamasaki
Project Manager,MISC Technical team
GSA, PBS, Great Lakes Region, PMSC
230 South Dearborn Street Suite 3300
Chicago, IL 60604
(312) 353-1256 (b) (6) fax (312) 353-0240
steven.yamasaki@gsa.gov

SMITHGROUPJJR

MEMORANDUM
www.smithgroup.com

Building 1 Stairway A – rev. 1

SUBJECT

8/21/2013

DATE

1

PAGE

OF

1

PAGES

Concrete Construction Tolerance

22480.000

PROJECT NO.

Steve Yamasaki

TO

312.353.1256

TELEPHONE NO.

GSA - Chicago

LOCATION

FAX NO.

Jerry Carter

FROM

313.422.8123

TELEPHONE NO.

SGJJR - Detroit

LOCATION

FAX NO.

DISTRIBUTION

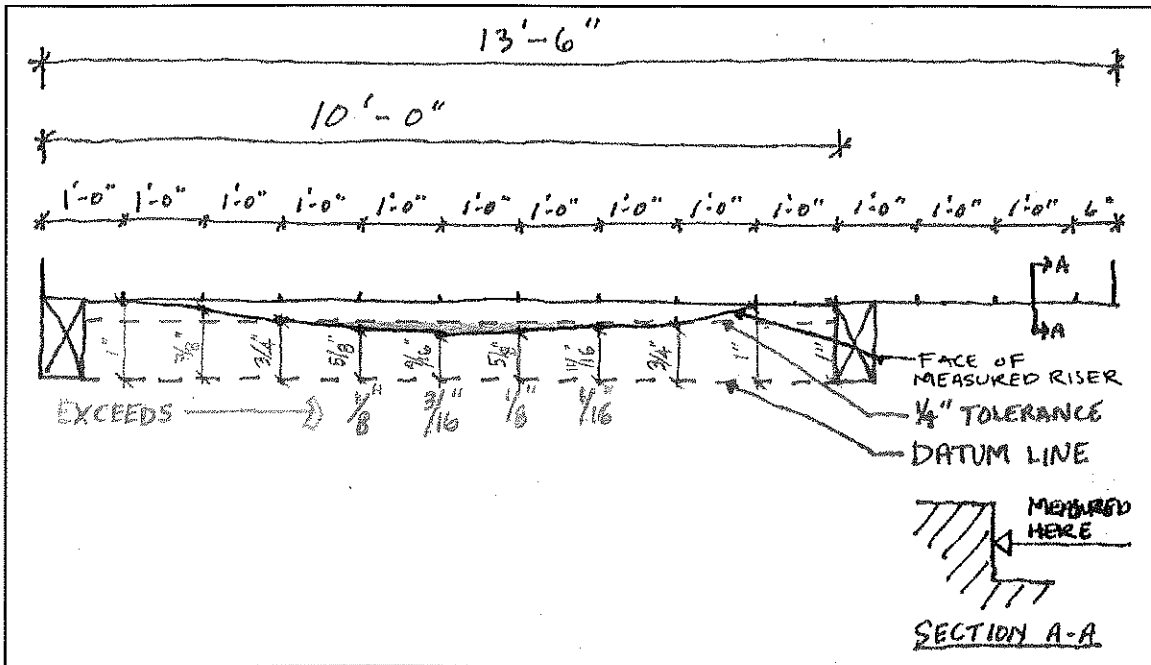
Dave Kamrowski

Steve Adams

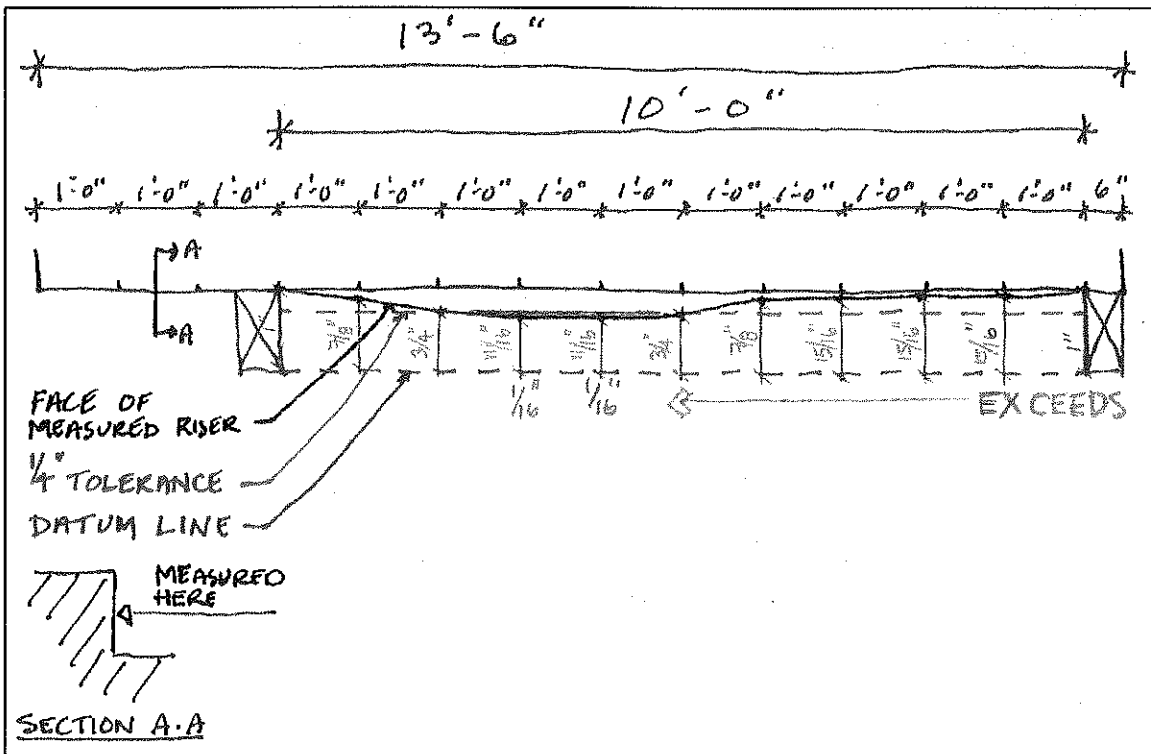
Paul Johnson

Tony Taylor

On Tuesday, August 13th, 2013, Steve Adams and I re-measured Stairway A (sheet A.1.06) to verify if the stairs were built to meet the tolerances set by ACI. All risers, north section and south section, were measured for Stairway A. The measurements observed for the north section of Stairway A, second and third risers, are greater than 1/4" over a 10'-0" span. All risers on the south section measured within the 1/4" tolerance (note, the second riser on the south section had multiple locations measured at a delta of 1/4".) Refer to Attachment A-rev1 for sketches and photos of the observations found at Stairway A.



SKETCH 1: Measurement first 10 feet – plan at Stairway A, north section, second riser



SKETCH 2: Measurement last 10 feet – plan at Stairway A, north section, second riser

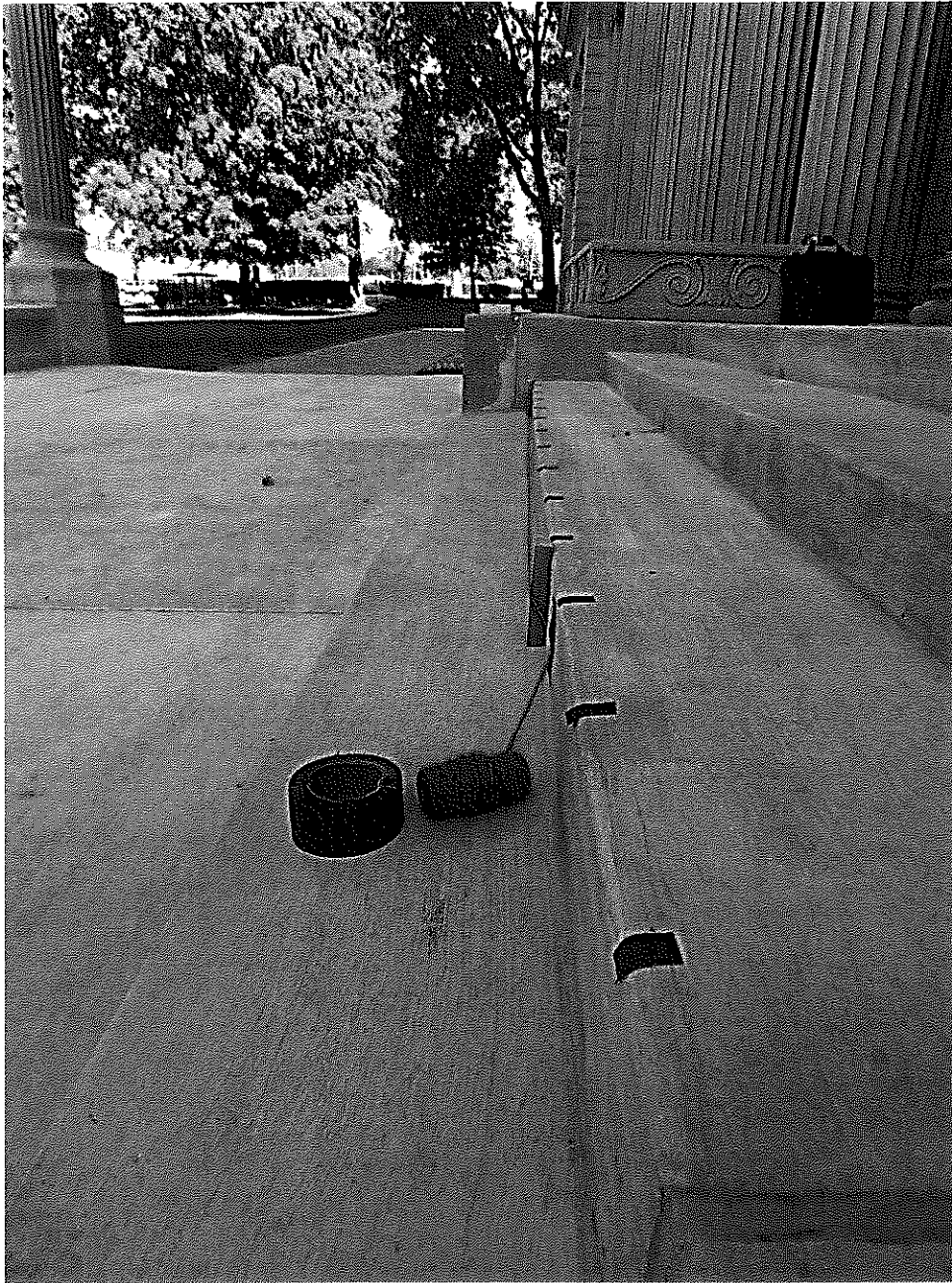


PHOTO 1: Overall photo at north section Stairway A, measurements of second riser

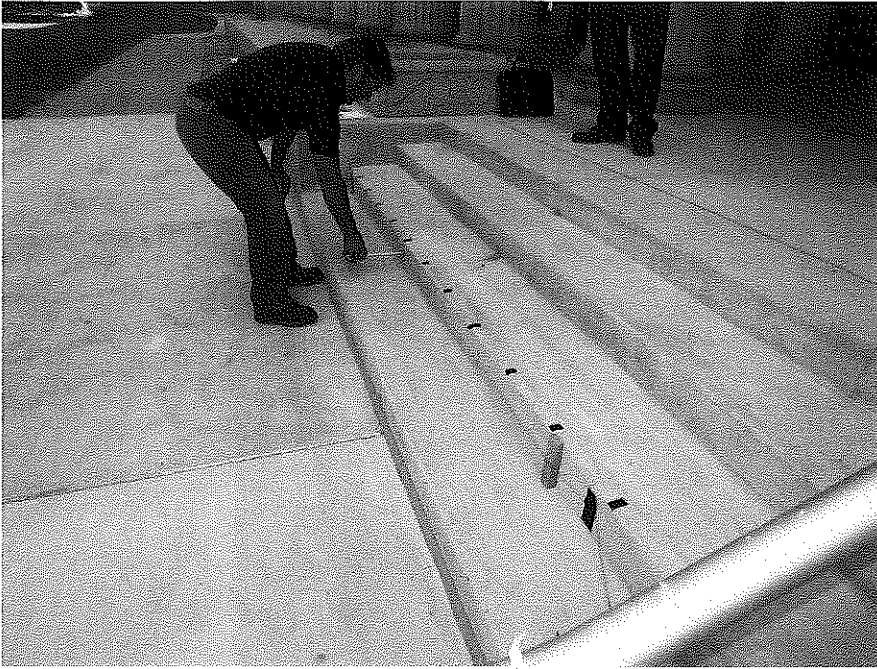


PHOTO 2: Overall photo at north section Stairway A, measurements of second riser

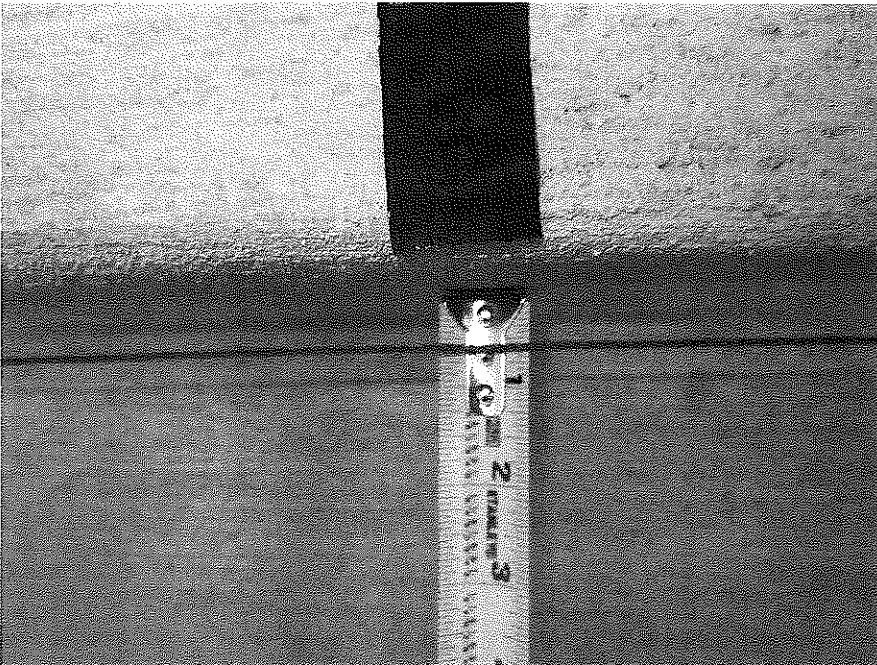
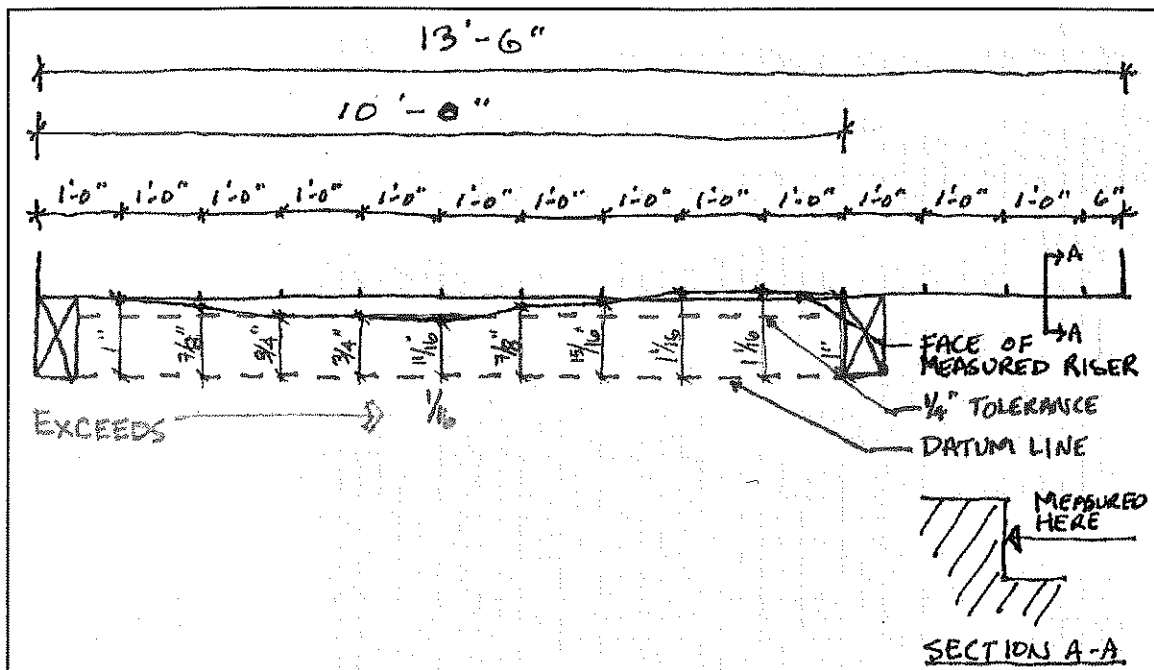
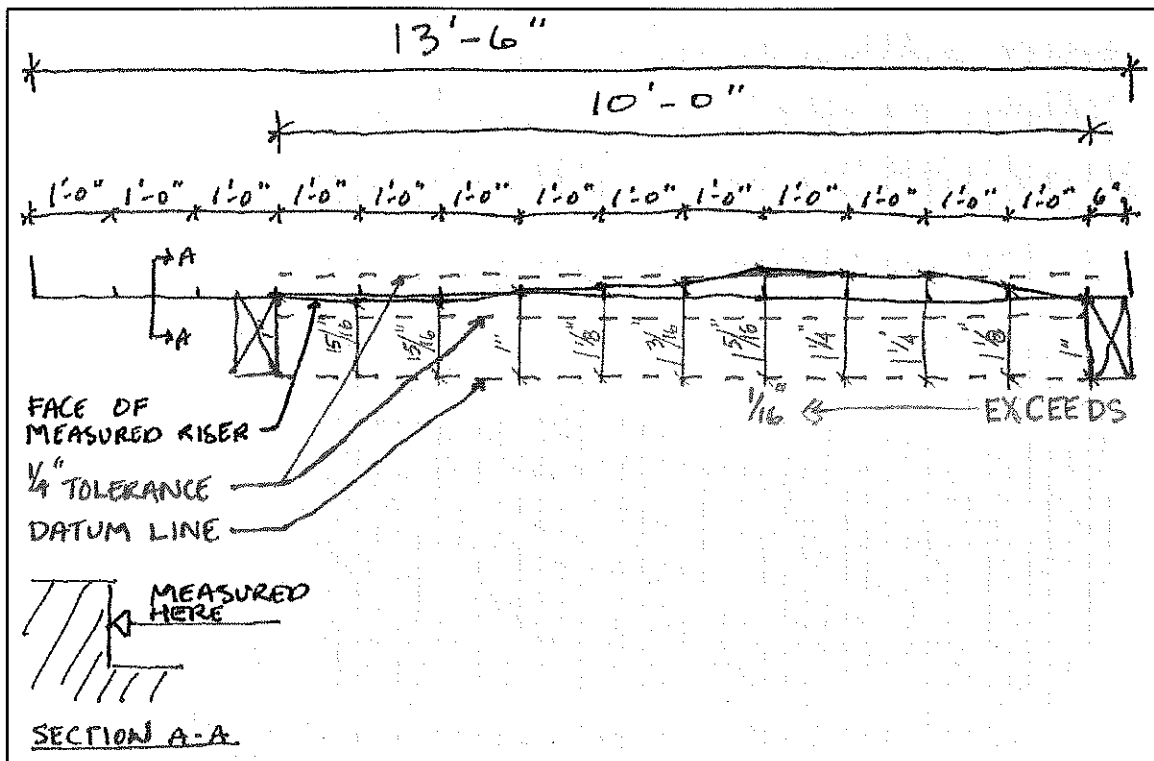


PHOTO 3: Measurement at north section Stairway A, second riser, reading 5/8", datum line is set at 1", delta is greater than 1/4".



SKETCH 3: Measurement of first 10 feet – plan at Stairway A, north section, third riser



SKETCH 4: Measurement of last 10 feet – plan at Stairway A, north section, third riser

SMITHGROUPJJR, INC.

Site Observation Photos: GSA Hart Dole Inouye Masonry Restoration August 13, 2013



PHOTO 4: Overall photo at north section Stairway A, measurements first 10 feet at third riser



PHOTO 5: Overall photo at north section Stairway A, measurements last 10 feet at third riser



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Fwd: FW: Stairway A Concrete Tolerance

1 message

ctaylor@caasti.com <ctaylor@caasti.com>

Tue, Oct 15, 2013 at 9:07 AM

Reply-To: "ctaylor@caasti.com" <ctaylor@caasti.com>

To: "Carter, Jerry" <Jerry.Carter@smithgroupjir.com>

Cc: "adams, steve" <ACT1001@aol.com>, "Yamasaki - 5PSSC1B, Steven" <steven.yamasaki@gsa.gov>

Hello Jerry,

I know we are still in government shutdown. However, please see attached proposed solution for the Concrete Tolerance issue at Battle Creek. Please review and advise.

Candice Taylor
CAASTI Contracting Services, Inc.
19115 West Eight Mile Rd
Detroit, MI 48219
313-535-9891 office / 313-535-9896

Every situation properly perceived becomes an opportunity

From: Lisa Priami [mailto:lpriami@ramservices.com]**Sent:** Tuesday, October 15, 2013 9:26 AM**To:** Tony Taylor**Cc:** Mike Ramey**Subject:** Stairway A Concrete Tolerance

Tony,

Please find the attached letter. I will also be mailing out a hard copy.

Thank You,

Lisa A. Priami on behalf of Mike Ramey

Administrative Assistant

**13800 Eckles Road, Livonia MI 48150**

10/23/13

GSA.gov Mail - Fwd: FW: Stairway A Concrete Tolerance

734-464-3800 / 734-437-6206 fax

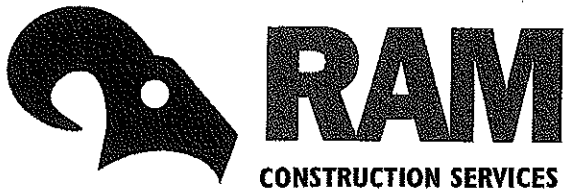
Direct 734-437-6242

www.ramservices.com



2846_001.pdf

1471K



October 15, 2013

Caasti Contracting Services
19115 W. Eight Mile Road
Detroit, Michigan 48219

Attention: Mr. Tony Taylor

Re: Hart-Dole-Inouye US Federal Center
Stairway A Concrete Tolerances
74 Washington Avenue, Battle Creek, Michigan
GS05PI1SYC0035, ADN# RNZE00836

Dear Mr. Taylor:

In response to Building I Stairway A concrete tolerances, below please find our proposed repairs to bring the risers in question with ACI tolerances.

- We will set up our string line at each location to create our datum line, all out of tolerance locations will be identified and marked.
- We will utilize an electric bush hammer to remove excess concrete from the face of the stair riser to create the proper profile on the surface of the concrete at each of the (4) locations.
- Our forces will apply Sika Armatex 110 Bonding Agent (*product and material safety data sheets attached*) and reinforcement protection at each location.
- We will bring each location within the ACI tolerance using Sikatop 123 Plus, which is a two-component, polymer-modified, cementitious, non-sag mortar plus Ferrogard 901 penetrating corrosion inhibitor (*product and material safety data sheets attached*).
- Our only concern in regards to the above discussed repair process will be matching the color of each location to the surrounding concrete. Our forces will apply a brush coat across the surface of the riser, consisting of a mixture of sand and cement to try and match the original concrete color.

If you have any questions, please feel free to contact me.

Very truly yours,
RAM Construction Services of Michigan, Inc.

Mike Ramey
MR/lp/mr13-259

Product Data Sheet
Edition 8.2003
Identification no. 188
SikaTop 123 Plus

SikaTop® 123 PLUS

Two-component, polymer-modified, cementitious, non-sag mortar plus FerroGard 901 penetrating corrosion inhibitor

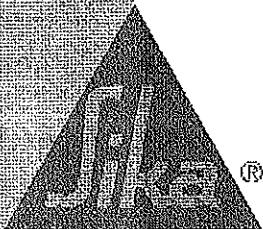
Description	SikaTop 123 PLUS is a two-component, polymer-modified, portland cement, fast-setting, non-sag mortar. It is a high performance repair mortar for vertical and overhead surfaces, and offers the additional benefit of FerroGard 901, a penetrating corrosion inhibitor.
Where to Use	<ul style="list-style-type: none">■ On grade, above, and below grade on concrete and mortar.■ On vertical and overhead surfaces.■ As a structural repair material for parking structures, industrial plants, water/waste water treatment facilities, roads, walkways, bridges, tunnels, dams, ramps, etc.■ Approved for repairs over cathodic protection systems.
Advantages	<ul style="list-style-type: none">■ High compressive and flexural strengths.■ High early strengths.■ Increased freeze/thaw durability and resistance to de-icing salts.■ Compatible with coefficient of thermal expansion of concrete - Passes ASTM C-884 (modified).■ Increased density - improved carbon dioxide resistance (carbonation) without adversely affecting water vapor transmission (not a vapor barrier).■ Enhanced with FerroGard 901, a penetrating corrosion inhibitor - reduces corrosion even in the adjacent concrete.■ Not flammable, non-toxic.■ Conforms to ECA/USPHS standards for surface contact with potable water.■ USDA approved.■ ANSI/NSF Standard 61 potable water approved.
Yield	0.39 cu. ft./unit.
Packaging	Component 'A' - 1 gal. plastic jug; 4/carton. Component 'B' - 44 lb. multi-wall bag.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

Shelf Life	One year in original, unopened packaging.
Storage Conditions	Store dry at 40°-95°F. Condition material to 65°-75°F. before using. Protect Component 'A' from freezing. If frozen, discard.
Color	Concrete gray when mixed.
Mixing Ratio	Plant-proportioned kit.
Application Time	Approximately 15 min. after adding Component 'B' to Component 'A'. Application time is dependent on temperature and relative humidity.
Finishing Time	20 to 60 min after combining components; depends on temperature, relative humidity, and type of finish desired.
Density (wet Mix)	132 lbs./cu. ft. (2.2 kg./l.)
Flexural Strength (ASTM C-293)	28 days 2,000 psi (13.8 MPa)
Splitting Tensile Strength (ASTM C-496)	28 days 900 psi (6.2 MPa)
Bond Strength* (ASTM C-882 modified)	28 days 2,200 psi (15.2 MPa)
Compressive Strength (ASTM C-109)	
1 day	3,500 psi (24.1 MPa)
7 days	6,000 psi (41.4 MPa)
28 days	7,000 psi (48.3 MPa)
Permeability (AASHTO T-277)	
28 days	Approximately 500 Coulombs. Electrical resistivity (ohm-cm) 27,000.
Freeze/Thaw Resistance (ASTM C-666)	300 cycles 98%
Corrosion Testing for FerroGard 901	
Cracked Beam Corrosion Tests:	
Reduced corrosion rates 63% versus control specimens. ASTM G109 modified after 400 days	
* Mortar scrubbed into substrate.	

Substrate	Concrete, mortar, and masonry products.
------------------	---

Construction



How to Use

Surface Preparation Concrete/Mortar: Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Be sure repair area is not less than 1/8 inch in depth. Preparation work should be done by high pressure water blast, scabber, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of $\pm 1/16$ in. (CSP-5) Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application. **Reinforcing Steel:** Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika Armatec 110 EpoCem (consult Technical Data Sheet).

Priming **Concrete Substrate:** Prime the prepared substrate with a brush or sprayed applied coat of Sika Armatec 110 EpoCem (consult Technical Data Sheet). Alternately, a scrub coat of Sika Top 123 can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.

Mixing Pour Component 'A' into mixing container. Add Component 'B' while mixing continuously. Mix mechanically with a low-speed drill (400 - 600 rpm) and mixing paddle or mortar mixer. Mix to a uniform consistency, maximum 3 minutes. Manual mixing can be tolerated only for less than a full unit. Thorough mixing and proper proportioning of the two components is necessary.

Application & Finish SikaTop 123 PLUS must be scrubbed into the substrate, filling all pores and voids. Force material against edge of repair, working toward center. After filling repair, consolidate, then screed. Material may be applied in multiple lifts. The thickness of each lift, not to be less than 1/8 inch minimum or more than 1.5 inches maximum. Where multiple lifts are required score top surface of each lift to produce a roughened surface for next lift. Allow preceding lift to reach final set, 30 minutes minimum, before applying fresh material. Saturate surface of the lift with clean water. Scrub fresh mortar into preceding lift. Allow mortar or concrete to set to desired stiffness, then finish with wood or sponge float for a smooth surface.

Curing As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based*, compatible curing compound. Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. If necessary protect newly applied material from direct sunlight, wind, rain and frost.

*Pretesting of curing compound is recommended.

Limitations

- **Application thickness:** Minimum 1/8 inch (3 mm). Maximum in one lift - 1.5 in. (38 mm).
- Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application.
- Do not use solvent-based curing compound.
- Size, shape and depth of repair must be carefully considered and consistent with practices recommended by ACI. For additional information, contact Technical Service.
- For additional information on substrate preparation, refer to ICRI Guideline No. 03732 Coatings, and Polymer Overlays.
- If aggressive means of substrate preparation is employed, substrate strength should be tested in accordance with ACI 503 Appendix A prior to the repair application.
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur Hi-Mod 32.

Caution **Component 'A' - Irritant** - May cause skin/eye/respiratory irritation. Avoid breathing vapors. Use with adequate ventilation. Avoid skin and eye contact. Safety goggles and rubber gloves are recommended. **Component 'B' - Irritant; suspect carcinogen** - Contains portland cement and sand (crystalline silica). Skin and eye irritant. Avoid contact. Dust may cause respiratory tract irritation. Avoid breathing dust. Use only with adequate ventilation. May cause delayed lung injury (silicosis). IARC lists crystalline silica as having sufficient evidence of carcinogenicity in laboratory animals and limited evidence of carcinogenicity in humans. NTP also lists crystalline silica as a suspect carcinogen. Use of safety goggles and chemical resistant gloves is recommended. If PELs are exceeded, an appropriate, NIOSH approved respirator is required. Remove contaminated clothing.

First Aid In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes, and contact a physician. For respiratory problems, remove person to fresh air.

Clean Up In case of spillage, scoop or vacuum into appropriate container, and dispose of in accordance with current, applicable local, state and federal regulations. Keep container tightly closed and in an upright position to prevent spillage and leakage.

Mixed components: Uncured material can be removed with water. Cured material can only be removed mechanically.

KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

Visit our website at www.sikausa.com

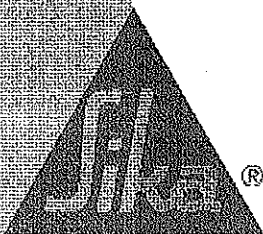
1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Corregidora, Queretaro
C.P. 76920 A.P. 136
Phone: 52 42 25 0122
Fax: 52 42 25 0537





MATERIAL SAFETY DATA SHEET

Sikatop 111, 121, 122, 123, & 126 Plus - Part A

HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

1. Product And Company Identification

Supplier

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Manufacturer

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Issue Date: 10/01/2007

Product Name: Sikatop 111, 121, 122, 123, & 126 Plus - Part A

CAS Number: Not Established

MSDS Number: 4184

Product Code: Various

Synonyms

SIKATOP 111 PLUS - PART A
SIKATOP 121 PLUS - PART A
SIKATOP 122 PLUS - PART A
SIKATOP 123 PLUS - PART A
SIKATOP 126 PLUS - PART A

2. Composition/Information On Ingredients

This products contains no hazardous ingredients when evaluated by criteria established in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

3. Hazards Identification

Eye Hazards

May cause eye irritation.

Skin Hazards

May cause skin irritation.

Ingestion Hazards

May be harmful if swallowed.

MATERIAL SAFETY DATA SHEET

Sikatop 111, 121, 122, 123, & 126 Plus - Part A

3. Hazards Identification - Continued

Inhalation Hazards

Moderate respiratory irritant.

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin

In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

If victim is fully conscious, give one or two cups of water or milk to drink. Call a physician if necessary.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Call a physician if needed.

5. Fire Fighting Measures

Flash Point: >220 °F

Fire And Explosion Hazards

Material may splatter above 212F. Polymer film can burn.

Extinguishing Media

In case of fire, use water spray (fog) foam, dry chemical, or CO2.

Fire Fighting Instructions

In the event of a fire, firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Avoid release to the environment. Use appropriate Personal Protective Equipment (PPE). Contain spill and collect with absorbent material and transfer into suitable containers. Do not flush to sewer or allow to enter waterways. Ventilate enclosed area.

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Store in a cool, dry, well ventilated area. Keep containers tightly closed.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate general and local exhaust ventilation. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Eye/Face Protection

Faceshield over safety glasses or goggles.

Skin Protection

Wear long sleeve shirt, long pants, chemical resistant gloves.

MATERIAL SAFETY DATA SHEET

Sikatop 111, 121, 122, 123, & 126 Plus - Part A

8. Exposure Controls/Personal Protection - Continued

Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use.

9. Physical And Chemical Properties

Appearance

Green Liquid

Odor

Acrylic smell

Chemical Type: Mixture

Physical State: Liquid

Percent VOCs: 0%

Packing Density: 8.5 pounds/gallon

Vapor Density: >AIR

Evaporation Rate: Slower than ether

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Avoid Freezing

Incompatible Materials

None Known

Hazardous Decomposition Products

None Known

Conditions To Avoid (Polymerization)

None Known

11. Toxicological Information

Conditions Aggravated By Exposure

None Known

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

Proper Shipping Name

Not Regulated by the USDOT.

MATERIAL SAFETY DATA SHEET

Sikatop 111, 121, 122, 123, & 126 Plus - Part A

15. Regulatory Information

U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Section 313 Notification

This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.

16. Other Information

HMS Rating

Health: 1

Fire: 0

Reactivity: 0

PPE: C

Revision/Preparer Information

MSDS Preparer: EHS Department

MSDS Preparer Phone Number: 201-933-8800

This MSDS Supersedes A Previous MSDS Dated: 04/26/2004

Disclaimer

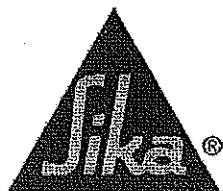
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SIKA CORPORATION

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MATERIAL SAFETY DATA SHEET

Sikatop 111, 122, & 123 Plus - Part B

HMIS

HEALTH	*2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

1. Product And Company Identification

Supplier

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Manufacturer

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Issue Date: 10/01/2007

Product Name: Sikatop 111, 122, & 123 Plus - Part B

CAS Number: Not Established

Chemical Family: Cement based repair mortar

MSDS Number: 4185

Product Code: Various

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
PORTLAND CEMENT	65997-15-1	
SILICA, QUARTZ	14808-60-7	

3. Hazards Identification

Eye Hazards

May cause eye irritation.

Skin Hazards

May cause skin irritation.

Ingestion Hazards

May be harmful if swallowed.

Inhalation Hazards

Breathing dust may cause nose, throat or lung irritation. Respirable crystalline silica can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive.

MATERIAL SAFETY DATA SHEET

Page 5 of 5

Sika Armatec 110 - Part C

16. Other Information - Continued

Revision/Preparer Information

MSDS Preparer: EHS Department

MSDS Preparer Phone Number: 201-933-8800

Disclaimer

The data in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Sika believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

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MATERIAL SAFETY DATA SHEET

Page 4 of 5

Sika Armatec 110 - Part C

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

Proper Shipping Name

Not regulated by the USDOT.

15. Regulatory Information

U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Hazard Classes

Acute Health Hazard
Chronic Health Hazard

SARA Title III - Section 313 Supplier Notification

This product contains the following toxic chemicals that are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

SODIUM NITRITE (7632-00-0) 1 - 5 %

This information must be included on all MSDSs that are copied and distributed for this material.

Ingredient(s) - U.S. Regulatory Information

SODIUM NITRITE

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

State Regulations

WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Ingredient(s) - State Regulations

SILICA, QUARTZ

New Jersey - Workplace Hazard
Pennsylvania - Workplace Hazard
California - Proposition 65
Massachusetts - Hazardous Substance

SODIUM NITRITE

New Jersey - Workplace Hazard
New Jersey - Environmental Hazard
Pennsylvania - Workplace Hazard
Pennsylvania - Environmental Hazard
New York City - Hazardous Substance

16. Other Information

HMIS Rating

Health: *2

Fire: 0

Reactivity: 0

PPE: C

MATERIAL SAFETY DATA SHEET

Page 3 of 5

Sika Armatec 110 - Part C

8. Exposure Controls/Personal Protection - Continued

Other/General Protection

Wash thoroughly after handling.

Ingredient(s) - Exposure Limits

CEMENT, PORTLAND

ACGIH TLV-TWA - 10 mg/m³

OSHA PEL -TWA - 15 mg/m³ (total dust)

OSHA PEL - TWA - 5 mg/m³ (respirable dust)

SILICA, QUARTZ

ACGIH TLV-TWA 0.1 mg/m³ (Notice of Intended Change)

ACGIH TLV-TWA 0.05 mg/m³ (Proposed)

OSHA PEL-TWA 30/%SiO₂+2 mg/m³

OSHA PEL-TWA 10/%SiO₂+2 mg/m³

OSHA PEL-TWA 250/%SiO₂+5 mppcf

9. Physical And Chemical Properties

Appearance

Solid/Sand

Odor

Cement

Chemical Type: Mixture

Physical State: Solid

Melting Point: N/A °F

Specific Gravity: 2.70

Vapor Pressure: N/A

Vapor Density: N/A

pH Factor: 11

Solubility: N/A

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

None Known

Incompatible Materials

None Known

Hazardous Decomposition Products

None Known

11. Toxicological Information

Ingredient(s) - Carcinogenicity

SILICA, QUARTZ

NTP - Listed On The National Toxicology Program

Listed In The IARC Monographs

12. Ecological Information

No Data Available...

MATERIAL SAFETY DATA SHEET

Page 2 of 5

Sika Armatec 110 - Part C

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin

In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration, seek medical attention.

5. Fire Fighting Measures

Flash Point: N/A °F

Autoignition Point: N/A °F

Fire And Explosion Hazards

None Known

Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions

In the event of a fire, firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Avoid release to the environment. Using appropriate personal protective equipment (PPE), shovel material into waste containers taking care to minimize dust. Dampen if necessary to control dust. Vacuum clean dust with equipment fitted with High Efficiency Particulate Air (HEPA) filters.

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Store in a cool, dry, well ventilated area. Keep containers tightly closed.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Engineering Controls

Use of a system of local and/or general exhaust is recommended to keep employee below applicable exposure limits. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Eye/Face Protection

Safety glasses with side shields or goggles.

Skin Protection

Chemical-resistant gloves. Lab coat or other work clothing to prevent skin exposure. Launder before reuse.

Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use. In areas where the Permissible Exposure Limits are exceeded, use a properly fitted NIOSH-approved respirator.



MATERIAL SAFETY DATA SHEET

Page 1 of 5

Sika Armatec 110 - Part C

HMIS

HEALTH	*2
	0
REACTIVITY	0
PERSONAL PROTECTION	C

1. Product And Company Identification

Supplier

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Manufacturer

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Issue Date: 03/03/2005

Product Name: Sika Armatec 110 - Part C
Chemical Family: Cementitious Mortar
Chemical Formula: RMF-1609
MSDS Number: 3485
Product Code: 018219N

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
CEMENT, PORTLAND	65997-15-1	30 - 35
SILICA, QUARTZ	14808-60-7	60 - 65
SODIUM NITRITE	7632-00-0	1 - 5

3. Hazards Identification

Eye Hazards

May cause eye irritation.

Skin Hazards

May cause skin irritation.

Ingestion Hazards

May be harmful if swallowed.

Inhalation Hazards

May cause respiratory tract irritation. Breathing dust may cause nose, throat or lung irritation. Respirable crystalline silica can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive.

MATERIAL SAFETY DATA SHEET

Page 4 of 4

Sika Armatec 110 - Part B

16. Other Information - Continued

HMIS Rating - Continued

Revision/Preparer Information

MSDS Preparer: EHS Department

MSDS Preparer Phone Number: 201-933-8800

Disclaimer

The data in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Sika believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

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MATERIAL SAFETY DATA SHEET

Page 3 of 4

Sika Armatec 110 - Part B

9. Physical And Chemical Properties

Appearance

Liquid

Odor

Amine

Chemical Type: Mixture

Specific Gravity: 1.03

Vapor Density: >Air

pH Factor: 10

Solubility: Soluble

Evaporation Rate: Slower than ether

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials

Strong oxidizing materials, acids, and bases.

Hazardous Decomposition Products

CO, CO₂, Oxides of Nitrogen

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

Proper Shipping Name

Not regulated by the USDOT.

15. Regulatory Information

U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Hazard Classes

Acute Health Hazard

16. Other Information

HMIS Rating

Health: 3

Fire: 1

Reactivity: 0

PPE: D

MATERIAL SAFETY DATA SHEET

Page 2 of 4

Sika Armatec 110 - Part B

4. First Aid Measures - Continued

Skin

In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Dilute with water.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Consult with a Physician.

5. Fire Fighting Measures

Flash Point: 150 °F 67 °C

Flash Point Method: DIN 51758

Autoignition Point: 510 °C

Fire And Explosion Hazards

Exposure to heat builds up pressure in closed containers.

Extinguishing Media

In case of fire, use water spray (fog) foam, dry chemical, or CO2.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Avoid release to the environment. Use appropriate Personal Protective Equipment (PPE). Contain spill and collect with absorbent material and transfer into suitable containers. Do not flush to sewer or allow to enter waterways. Ventilate enclosed area.

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Store in a cool, dry, well ventilated area. Keep containers tightly closed.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate general and local exhaust ventilation. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Eye/Face Protection

Faceshield over safety glasses or goggles.

Skin Protection

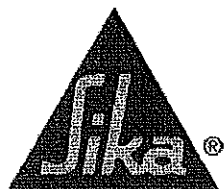
Chemical-resistant gloves. Lab coat or other work clothing to prevent skin exposure. Launder before reuse.

Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use.

Other/General Protection

Wash thoroughly after handling.



MATERIAL SAFETY DATA SHEET

Page 1 of 4

Sika Armatec 110 - Part B

HMIS

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	D

1. Product And Company Identification

Supplier

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Manufacturer

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Issue Date: 03/03/2005

Product Name: Sika Armatec 110 - Part B
Chemical Family: Modified Aliphatic Amine
MSDS Number: 3484
Product Code: 018214N

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
PROPIATERY BLEND OF ALIPHATIC & CYCLOALIPHATIC AMINES	Mixture	

3. Hazards Identification

Eye Hazards

Causes eye irritation.

Skin Hazards

Causes skin irritation. Prolonged and/or repeated skin contact may cause an allergic reaction/sensitization.

Ingestion Hazards

Harmful if swallowed.

Inhalation Hazards

May cause respiratory tract irritation.

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

MATERIAL SAFETY DATA SHEET

Page 4 of 4

Sika Armatec 110 - Part A

15. Regulatory Information - Continued

U.S. Regulatory Information - Continued

SARA Hazard Classes

Acute Health Hazard

16. Other Information

HMIS Rating

Health: 2

Fire: 1

Reactivity: 0

PPE: C

Revision/Preparer Information

MSDS Preparer: EHS Department

MSDS Preparer Phone Number: 201-933-8800

Disclaimer

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MATERIAL SAFETY DATA SHEET

Page 3 of 4

Sika Armatec 110 - Part A

8. Exposure Controls/Personal Protection - Continued

Other/General Protection

Wash thoroughly after handling.

9. Physical And Chemical Properties

Appearance

Milky, white liquid

Odor

Mild

Chemical Type: Mixture

Melting Point: N/A °F

Boiling Point: N/A °F

Specific Gravity: 1.09

Percent Volatiles: 38%, wt.

Packing Density: 9.13

Vapor Pressure: N/A

Vapor Density: >AIR

Solubility: Miscible

Evaporation Rate: Slower than ether

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

None known

Incompatible Materials

None known

Hazardous Decomposition Products

Oxides of Nitrogen, CO, CO2

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

Proper Shipping Name

Not regulated by the USDOT.

15. Regulatory Information

U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

MATERIAL SAFETY DATA SHEET

Page 2 of 4

Sika Armatec 110 - Part A

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin

In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Dilute with water. Get medical attention immediately.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration, seek medical attention.

5. Fire Fighting Measures

Flash Point: >220 °F

Autoignition Point: N/A °F

Fire And Explosion Hazards

None Known.

Extinguishing Media

In case of fire, use water spray (fog) foam, dry chemical, or CO2.

Fire Fighting Instructions

In the event of a fire, firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Avoid release to the environment. Use appropriate Personal Protective Equipment (PPE). Contain spill and collect with absorbent material and transfer into suitable containers. Do not flush to sewer or allow to enter waterways. Ventilate enclosed area.

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Store in a cool dry area. Keep from freezing. Keep containers tightly closed.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate general and local exhaust ventilation. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Eye/Face Protection

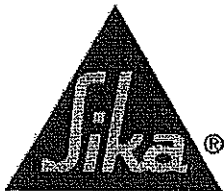
Safety glasses with side shields or goggles recommended.

Skin Protection

Chemical-resistant gloves. Lab coat or other work clothing to prevent skin exposure. Launder before reuse.

Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use.



MATERIAL SAFETY DATA SHEET

Page 1 of 4

Sika Armatec 110 - Part A

HMIS

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	C

1. Product And Company Identification

Supplier

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Manufacturer

Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Issue Date: 03/08/2005

Product Name: Sika Armatec 110 - Part A
Chemical Family: Epoxy Compound
Chemical Formula: RMF-1681
MSDS Number: 3499
Product Code: 018213N

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
EPOXY RESIN	25068-38-6	
O-CRESYL GLYCIDYL ETHER	2210-79-9	

3. Hazards Identification

Eye Hazards

Causes eye irritation.

Skin Hazards

May cause skin irritation. Prolonged and/or repeated contact with skin may cause an allergic reaction/sensitization.

Ingestion Hazards

May be fatal if swallowed.

Inhalation Hazards

May cause respiratory tract irritation.

EpoCem 110

How to Use

Surface Preparation	<p>Cementitious substrates: Should be cleaned and prepared to achieve a lailance and contaminant-free surface prepared in accordance with the requirements specified by the overlay or repair material by blast cleaning or equivalent mechanical means. Substrate must be saturated surface dry (SSD) with no standing water.</p> <p>Steel: Should be cleaned and prepared thoroughly by blast cleaning.</p>								
Mixing	Shake contents of both Component 'A' and Component 'B'. Empty entire contents of both Component 'A' and Component 'B' into a clean, dry mixing pail. Mix thoroughly for 30 seconds with a Sika paddle on a low speed (400-600 rpm) drill. Slowly add the entire contents of Component 'C' while continuing to mix for 3 minutes until blend is uniform and free of lumps. Mix only that quantity that can be applied within its pot life.								
Application	<p>As a bonding agent - Apply by stiff-bristle brush or broom. Spray apply with Goldblatt Pattern Pistol or equal equipment. For best results, work the bonding slurry well into the substrate to ensure complete coverage of all surface irregularities. Apply the freshly mixed patching mortar or concrete wet on wet, or up to the maximum recommended open time, onto the bonding slurry.</p> <p>Maximum recommended open time between application of Armatec 110 and patching mortar or concrete:</p> <table> <tr> <td>80°-95°F (26°-35°C)</td><td>6 hours</td></tr> <tr> <td>65°-79°F (18°-26°C)</td><td>12 hours</td></tr> <tr> <td>50°-64°F (10°-17°C)</td><td>16 hours</td></tr> <tr> <td>40°-49°F (4°-9°C)</td><td>wet-on-wet</td></tr> </table> <p>For corrosion protection only - Apply by stiff-bristle brush or spray at 80 sq. ft./gal. (20 mils). Take special care to properly coat the underside of the totally exposed steel. Allow coating to dry 2-3 hours @ 73°F, then apply a second coat at the same coverage. Allow to dry again before the repair mortar or concrete is applied. Pour or place repair within 7 days.</p>	80°-95°F (26°-35°C)	6 hours	65°-79°F (18°-26°C)	12 hours	50°-64°F (10°-17°C)	16 hours	40°-49°F (4°-9°C)	wet-on-wet
80°-95°F (26°-35°C)	6 hours								
65°-79°F (18°-26°C)	12 hours								
50°-64°F (10°-17°C)	16 hours								
40°-49°F (4°-9°C)	wet-on-wet								
Limitations	<ul style="list-style-type: none"> Substrate and ambient temperature: Minimum 40°F (5°C) Maximum 95°F (35°C) Minimum thickness: As a bonding agent 20 mils. For reinforcement protection 40 mils (2 coats, 20 mils each). Not recommended for use with expansive grouts. Use of semi-dry mortars onto Sika Armatec 110 EpoCem must be applied "wet on wet". When used in overhead applications with hand placed patching mortars, use "wet on wet" for maximum mortar build thickness. Substrate profile as specified by the overlay or repair material is still required. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur Hi-Mod 32. 								
Caution	<p>Part A & B: IRRITANT; SENSITIZER - Can cause skin sensitization after prolonged or repeated contact. Skin and eye irritant. High concentrations of vapor may cause respiratory irritation. Avoid skin contact. Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended.</p> <p>Part C: IRRITANT; SUSPECT CARCINOGEN - Contains crystalline silica, quartz (sand); cement. Skin and eye irritant. Dust may cause respiratory tract irritation. Avoid breathing dust. Use only with adequate ventilation. May cause delayed lung injury (silicosis). IARC list crystalline silica as having sufficient evidence of carcinogenicity to laboratory animals and limited evidence of carcinogenicity in humans. NTP also lists crystalline silica as a suspect carcinogen. Use of safety gloves is recommended. In case of high dust concentrations or exceedance of PELs, use an appropriate NIOSH approved respirator.</p>								
First Aid	In case of eye contact, wash immediately with soap and water for 15 minutes; immediately consult a physician. In case of skin contact, wash with soap and water; consult a physician for irritation. For respiratory problems, remove person to fresh air and institute artificial respiration if necessary; consult a physician. In case of ingestion, immediately consult a physician. Wash clothing before reuse.								
Clean-Up	In case of spills or leaks, wear suitable protective equipment, contain spill, collect with absorbent material, and transfer to a suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state, and federal regulations.								

KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKAS SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

Visit our website at www.sikausa.com

1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

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Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Corregidora, Queretaro
C.P. 76920 A.P. 136
Phone: 52 42 25 0122
Fax: 52 42 25 0537



Sika Armatec® 110 EpoCem®

Bonding Agent and Reinforcement Protection

Description	Sika Armatec 110 EpoCem is a 3-component, solvent-free, moisture-tolerant, epoxy-modified, cementitious product specifically formulated as a bonding agent and an anti-corrosion coating.
Where to Use	<ul style="list-style-type: none"> ■ As an anti-corrosion coating for reinforcing steel in concrete restoration. ■ As added protection to reinforcing steel in areas of thin concrete cover. ■ As a bonding agent for repairs to concrete and steel. ■ As a bonding agent for placing fresh, plastic concrete to existing hardened concrete.
Advantages	<ul style="list-style-type: none"> ■ Excellent adhesion to concrete and steel. ■ Acts as an effective barrier against penetration of water and chlorides. ■ Long open time - up to 16 hours. ■ Not a vapor barrier. ■ Can be used exterior on-grade. ■ Contains corrosion inhibitors. ■ Excellent bonding bridge for cement or epoxy based repair mortars. ■ High strength, unaffected by moisture when cured. ■ Spray, brush or roller application. ■ Non-flammable, solvent free.
Coverage	Bonding agent: minimum (theoretical) on smooth, even substrate 80 sq. ft./gal. (=20 mils thickness). Coverage will vary depending on substrate profile and porosity. Reinforcement Protection: 40 sq. ft./gal. (=20 mils thickness) (2 coat application).
Packaging	3.5 gal. unit. (47.6 fl. oz. Comp. A + 122.1 fl. oz. Comp. B + 46.82 lb. Comp. C) Comp. A + B in carton, Comp. C in multi-wall bag. 1.65 gal. unit. (22.7 fl. oz. A + 57.6 fl. oz. B + 4 bags @ 5.5 lb.) Factory-proportioned units in a pail.

Typical Data (Material and curing conditions @ 73°F and 50% R.H.)

Shelf Life	1 year in original, unopened packaging.
Storage	Stored dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. If components A and B are frozen, discard. Protect Component C from humidity.
Color	Concrete gray
Density (Mixed)	125 lb./cu. ft. (2.0 kg.)
Pot Life	Approximately 90 minutes
Compressive Strength (ASTM C-109)	3 days 4500 psi (31.0 MPa) 7 days 6500 psi (44.8 MPa) 28 days 8500 psi (58.6 MPa)

Flexural Strength (ASTM C-348) 28 days 1250 psi (8.6 MPa)

Splitting Tensile Strength (ASTM C-496) 28 days 600 psi (4.1 MPa)

Important Data for Sika Armatec 110 as a Corrosion Protective Coating

Water	Water Permeability at 10 bar (145 psi)	8.92 x 10 ⁻¹⁵ ft./sec.
	Control	7.32 x 10 ⁻¹⁰ ft./sec.
	Water vapor diffusion coefficient μ H ₂ O	110

Carbon Dioxide Carbon dioxide diffusion coefficient μ CO₂ 14000

TEST DATA: Time-to-Corrosion Study

- Sika Armatec 110 more than tripled the time to corrosion
- Reduced corrosion rate by over 40%

Important Data for Sika Armatec 110 as a Bonding Agent

Bond Strength (ASTM C882)	14 days moist cure, plastic concrete to hardened concrete:	
	Wet on Wet	2800 psi (19.3 MPa)
	24 hr. Open Time	2600 psi (17.9 MPa)

Bond of Steel Reinforcement to Concrete (Pullout Test):

Sika Armatec 110 Coated	625 psi (4.3 MPa)
Epoxy Coated	508 psi (3.5 MPa)
Plain Reinforcement	573 psi (3.95 MPa)

Corrosion Protection



MATERIAL SAFETY DATA SHEET

Sikatop 111, 122, & 123 Plus - Part B

Disclaimer - Continued

CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikacorp.com or 201-933-8800.

SIKA CORPORATION

Printed Using MSDS Generator™ 2000

MATERIAL SAFETY DATA SHEET

Sikatop 111, 122, & 123 Plus - Part B

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

Proper Shipping Name

Not Regulated by the USDOT.

15. Regulatory Information

U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Ingredient(s) - State Regulations

PORTLAND CEMENT

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

SILICA, QUARTZ

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

California - Proposition 65

Massachusetts - Hazardous Substance

16. Other Information

HMIS Rating

Health: *2

Fire: 0

Reactivity: 0

PPE: C

Revision/Preparer Information

MSDS Preparer: EHS Department

MSDS Preparer Phone Number: 201-933-8800

This MSDS Supersedes A Previous MSDS Dated: 11/09/2005

Disclaimer

The information contained in this Material Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Technical Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this MSDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR

MATERIAL SAFETY DATA SHEET

Sikatop 111, 122, & 123 Plus - Part B

8. Exposure Controls/Personal Protection - Continued

Eye/Face Protection

Safety glasses with side shields or goggles.

Skin Protection

Chemical-resistant gloves. Lab coat or other work clothing to prevent skin exposure (Long sleeve shirt and long pants). Launder before reuse.

Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use. In areas where the Permissible Exposure Limits are exceeded, use a properly fitted NIOSH-approved respirator.

Ingredient(s) - Exposure Limits

PORTLAND CEMENT

ACGIH TLV-TWA 10 mg/m³

OSHA PEL-TWA 50 mppcf

SILICA, QUARTZ

ACGIH TLV-TWA 0.05 mg/m³ (Notice of Intended Change)

ACGIH TLV-TWA 0.025 mg/m³ (Proposed)

OSHA PEL-TWA 30/%SiO₂+2 mg/m³

OSHA PEL-TWA 10/%SiO₂+2 mg/m³

OSHA PEL-TWA 250/%SiO₂+5 mppcf

9. Physical And Chemical Properties

Appearance

Grey Powder

Odor

None

Chemical Type: Mixture

Physical State: Solid

Specific Gravity: 2-3 g/cm³

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials

None Known

Hazardous Decomposition Products

None Known

Conditions To Avoid (Polymerization)

None Known

11. Toxicological Information

Conditions Aggravated By Exposure

None Known

Ingredient(s) - Carginogenicity

SILICA, QUARTZ

NTP - Listed On The National Toxicology Program

Listed In The IARC Monographs

MATERIAL SAFETY DATA SHEET

Sikatop 111, 122, & 123 Plus - Part B

3. Hazards Identification - Continued

Chronic/Carcinogenicity Effects

Contains Silica Quartz. Inhalation of quartz is classified as a human carcinogen. Chronic overexposure can cause silicosis, a form of lung scarring that can cause shortness of breath, reduced lung function, and in severe cases, death.

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin

In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

If victim is fully conscious, give one or two cups of water or milk to drink. Never give anything by mouth to an unconscious victim. Call a physician if necessary.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Call a physician if needed.

5. Fire Fighting Measures

Flash Point: N/A °F

Fire And Explosion Hazards

None known.

Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions

In the event of a fire, firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Avoid release to the environment. Using appropriate personal protective equipment (PPE), shovel material into waste containers taking care to minimize dust. Dampen if necessary to control dust. Vacuum clean dust with equipment fitted with High Efficiency Particulate Air (HEPA) filters.

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Store in a cool, dry, well ventilated area. Keep containers tightly closed.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Engineering Controls

Use of a system of local and/or general exhaust is recommended to keep employee below applicable exposure limits. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Re: Change Order #5 Reciepts

ctaylor@caasti.com <ctaylor@caasti.com>

Mon, Nov 18, 2013 at 3:43 PM

Reply-To: "ctaylor@caasti.com" <ctaylor@caasti.com>

To: Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Cc: "Williams - 5P2PQBC, Kathern" <kathern.williams@gsa.gov>

Can I get a response on the concrete tolerance solution we sent it? It was sent in weeks ago. Please advise.

On November 18, 2013 at 4:39 PM Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

Thanks,

Steve

On Mon, Nov 18, 2013 at 3:37 PM, ctaylor@caasti.com <ctaylor@caasti.com> wrote:

1 sheet = 8x15 = 120 sft

On November 18, 2013 at 4:33 PM Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

Yes, you are correct about the 30.75 yards for \$4390. (Exceptionally slow at printing pdfs).

I cannot see where the square footage of each of the 20 pieces of mesh is noted?

Steve

On Mon, Nov 18, 2013 at 3:05 PM, ctaylor@caasti.com <ctaylor@caasti.com> wrote:

No, the total is 30.75 yds of concrete totalling \$4388.63 per the receipts sent to you!
Also, I responded to the question of the size of the mesh which was as spec'd by GSA in the description. Please scroll and see response.

On November 18, 2013 at 3:59 PM Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

Just to confirm that a total of 28.25 yards with a total cost of \$3,958?

Please confirm the square footage of "1 mesh sheet cover"?

Steve

On Mon, Nov 18, 2013 at 9:10 AM, ctaylor@caasti.com <ctaylor@caasti.com> wrote:

Please see my response below. If you have any further questions, please forward to my attention.

On November 14, 2013 at 4:57 PM Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Re: FW: Stairway A Concrete Tolerance

1 message

Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>
To: David Kamrowski - 5PSSCB <david.kamrowski@gsa.gov>

Tue, Nov 19, 2013 at 10:41 AM

ok I will await their response.

Steve

On Tue, Nov 19, 2013 at 10:40 AM, David Kamrowski - 5PSSCB <david.kamrowski@gsa.gov> wrote:

I have heart burn with accepting work that does not meet specification or industry standard. Our facility is a historic property and listed by OSH as a VPP certified facility.

My suggestion would to be to either require CAASTI to do it correctly or deduct the work from the contract and let the CO and CAASTI work it out.

On Tue, Nov 19, 2013 at 11:12 AM, Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

I'd recommend doing nothing and accept. I believe CAASTI repairs will make it worse. Shall I pursue another solution from CAASTI?

Steve

On Tue, Nov 19, 2013 at 10:02 AM, David Kamrowski - 5PSSCB <david.kamrowski@gsa.gov> wrote:

Quick read and quick response, willing to discuss.

REJECTED!

This method would be a patch. The patching materials have not demonstrated in any other repair we've done to be a long term effective method of repair.

It would patch the steps maybe until the warranty is over, not what we want to see on the face of a grand historic property.

On Tue, Nov 19, 2013 at 10:57 AM, Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

Since SG is not yet back on the project please review and let me know what you think. I'll forward my comments shortly.

Steve

----- Forwarded message -----

From: ctaylor@caasti.com <ctaylor@caasti.com>
Date: Tue, Oct 15, 2013 at 9:07 AM
Subject: Fwd: FW: Stairway A Concrete Tolerance
To: "Carter, Jerry" <Jerry.Carter@smithgroupjir.com>



Steve W. Yamasaki - 5PSSC1B - 5PSSC1B@gsa.gov

Re: FW: Stairway A Concrete Tolerance

Thursday

Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Tue, Nov 19, 2013 at 10:17 AM

To: "ctaylor@caasti.com" <ctaylor@caasti.com>

Cc: "Carter, Jerry" <Jerry.Carter@smithgroupjir.com>, "adams, steve" <ACT1001@aol.com>, Dave Kamrowski <david.kamrowski@gsa.gov>, "Mariah C. McGunigle" <mariah.mcgunigle@gsa.gov>

Sorry for the delay. The proposed repair is rejected. As you know the Federal Center is a historic building and especially the walkway entrance to building 1. We cannot take a chance that the "patches" may not match the colour of the existing new concrete as mentioned by Mike Ramey from RAM.

Steve

On Tue, Oct 15, 2013 at 9:07 AM, ctaylor@caasti.com <ctaylor@caasti.com> wrote:

Hello Jerry,

I know we are still in government shutdown. However, please see attached proposed solution for the Concrete Tolerance issue at Battle Creek. Please review and advise.

Candice Taylor
CAASTI Contracting Services, Inc.
19115 West Eight Mile Rd
Detroit, MI 48219
313-535-9891 office / 313-535-9896

Every situation properly perceived becomes an opportunity

From: Lisa Priami [mailto:lpriami@ramservices.com]

Sent: Tuesday, October 15, 2013 9:26 AM

To: Tony Taylor

Cc: Mike Ramey

Subject: Stairway A Concrete Tolerance

Tony,

Please find the attached letter. I will also be mailing out a hard copy.

Thank You,

Lisa A. Priami on behalf of Mike Ramey



Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov>

Re: FW: Stairway A Concrete Tolerance

1 message

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Date: Tue, Oct 15, 2013 at 9:07 AM

Subject: Fwd: FW: Stairway A Concrete Tolerance

To: "Carter, Jerry" <Jerry.Carter@smithgroupjir.com>

Cc: "adams, steve" <ACT1001@aol.com>, "Yamasaki - 5PSSC1B, Steven" <steven.yamasaki@gsa.gov>

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Administrative Assistant



13800 Eckles Road, Livonia MI 48150

734-464-3800 / 734-437-6206 fax

Direct 734-437-6242

www.ramservices.com

--
Steve Yamasaki
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steven.yamasaki@gsa.gov

--
David Kamrowski
Property Manager, Battle Creek Field Office
GSA, PBS Great Lakes Region, MISC, PMSC
Hart-Dole-Inouye Federal Center, 74 N. Washington Ave.
Battle Creek, Michigan 49037-3086
269-425-3353, (b) (6) fax 269-961-7345
david.kamrowski@gsa.gov
www.gsa.gov/hdifiedctr



Steven Yamasaki - 5PSS3P1 <steven.yamasaki@gsa.gov>

Re: FW: Stairway A Concrete Tolerance

11/19/2013

Steven Yamasaki - 5PSS3P1 <steven.yamasaki@gsa.gov>

Fri, Dec 6, 2013 at 9:04 AM

To: "ctaylor@caasti.com" <ctaylor@caasti.com>

Cc: "Mariah C. McGunigle" <mariah.mcgunigle@gsa.gov>, "adams, steve" <ACT1001@aol.com>, Dave Kamrowski <david.kamrowski@gsa.gov>, "Carter, Jerry" <Jerry.Carter@smithgroupjir.com>

Should have a response early next week. Sorry for the delay.

Steve

On Tue, Dec 3, 2013 at 1:08 PM, ctaylor@caasti.com <ctaylor@caasti.com> wrote:

The solution we sent was the industry standard. Is there another suggestion that you all have as a resolution. If not, can there be a meeting set up with the subcontractor to resolve this issue.

On November 19, 2013 at 11:17 AM Steven Yamasaki - 5PSSC1B <steven.yamasaki@gsa.gov> wrote:

Sorry for the delay. The proposed repair is rejected. As you know the Federal Center is a historic building and especially the walkway entrance to building 1. We cannot take a chance that the "patches" may not match the colour of the exisiting new concrete as mentioned by Mike Ramey from RAM.

Steve

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From: Lisa Priami [mailto:lpriami@ramservices.com]

Sent: Tuesday, October 15, 2013 9:26 AM

To: Tony Taylor

Cc: Mike Ramey

Subject: Stairway A Concrete Tolerance



Steven Yamasaki - 5PSS3P1 <steven.yamasaki@gsa.gov>

Re: FW: Stairway A Concrete Tolerance

1 message

Steven Yamasaki - 5PSS3P1 <steven.yamasaki@gsa.gov>

Mon, Dec 9, 2013 at 1:37 PM

To: "ctaylor@caasti.com" <ctaylor@caasti.com>

Cc: "Mariah C. McGunigle" <mariah.mcgunigle@gsa.gov>, "adams, steve" <ACT1001@aol.com>, Dave Kamrowski <david.kamrowski@gsa.gov>, "Carter, Jerry" <Jerry.Carter@smithgroupjir.com>

Candice: can you forward a copy of the industry standard please.

Steve

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Thank You,

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Administrative Assistant



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313-535-9891 office / 313-535-9896



Steven Yamasaki - 5PSS3P1 <steven.yamasaki@gsa.gov>

Re: FW: Stairway A Concrete Tolerance

1 message

Steven Yamasaki - 5PSS3P1 <steven.yamasaki@gsa.gov>

Mon, Dec 16, 2013 at 10:06 AM

To: "ctaylor@caasti.com" <ctaylor@caasti.com>

Cc: "Mariah C. McGunigle" <mariah.mcgunigle@gsa.gov>, "adams, steve" <ACT1001@aol.com>, Dave Kamrowski <david.kamrowski@gsa.gov>, "Carter, Jerry" <Jerry.Carter@smithgroupjir.com>

All I can suggest is to redo (in the Spring). Anyone else have a suggestion out there?

Steve

On Mon, Dec 16, 2013 at 10:01 AM, ctaylor@caasti.com <ctaylor@caasti.com> wrote:

My subcontractor informed me that there is no written standard but this is the standard repair for this type of issue. Is there a recommendation of repair that the architect suggest? Please advise.

On December 9, 2013 at 2:37 PM Steven Yamasaki - 5PSS3P1 <steven.yamasaki@gsa.gov> wrote:

Candice: can you forward a copy of the industry standard please.

Steve

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13800 Eckles Road, Livonia MI 48150

734-464-3800 / 734-437-6206 fax

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